

# INDEX

H.A. Vol. 21. No. 1.

N.B.—Brackets round the name denote that this person, although not the author, was directly or indirectly concerned with the article.

- ABBISS, H. W., 874  
 ABDULLAEV, A. G., 178  
 ABDULLAEV, S. G., 614  
 ABRAHAMS, M. D., 795f  
 ABREU VELHO, H. DE L., 1187a  
 ACERETE, A., 227  
 ADAMS, J. B., 745  
 ADAMS, J. E., 101  
 ADAMSON, N. J., 791  
 ADDICOTT, F. T., 826  
 ADSUAR, J., 1187b  
 AGAPOV, S. P., 624  
 AGRICULTURAL LAND COMMISSION, 1210  
 AGÜERO S., D., 1073  
 AHLBERG, O., 743  
 AHMAD, S., 963  
 AIZENSTAT, JA. S., 51  
 AJBAN, A., 300a  
 ALBERT, A. R., 697  
 ALDERMAN, W. H., 318  
 ALEXANDER, L. M., 768a  
 ALI, N., 966  
 ALLEN, F. W., 228  
 ALLEN, N. S., 109a  
 ALLEN, W. R., 426, 559  
 ALLEN, W. W., 510a  
 ALLO, A. V., 566  
 ALMEIDA, C. R., MARQUES DE, 165, 1056  
 ALPATOV, V. V., 621  
 AMERICAN PHYTOPATHOLOGICAL SOCIETY, FUNGICIDE COMMITTEE, 403  
 AMIZET, L., 936  
 AMSTERDAM, ROYAL INSTITUTE FOR THE INDIES, 1211  
 ANDERSON, A. D., 1187f  
 ANDERSON, E. G., 510b  
 ANDERSON, E. T., 479  
 ANDERSON, G. R., 480  
 ANDERSON, L. D., 749  
 ANDERSON, R. B., 768a  
 ANDERSSSEN, F. G., 928  
 ANDRADE, A. C., 663  
 ANDRÉN, F., 732  
 ANET, F. A. L., 800  
 ANGELINI, A., 424  
 ANGELL, H. R., 595  
 ANON., 104, 105, 220, 306, 340, 353, 358, 374, 400, 447, 473, 476, 544, 613, 616, 634, 681, 686, 687a, 803, 850, 859, 863, 871, 915, 967, 974, 1000, 1148  
 ANSTEV, T. H., 300b  
 ANTHON, E. W., 431t  
 ANTIA, M. B., 836a  
 ANTIPOVA, L. K., 701  
 ARGOUD, S., 1187p  
 ARHANGELSKII, S. A., 692  
 ARK, P. A., 661  
 ARLE, H. F., 477  
 ARMSTRONG, T., 431a  
 ARNAULT-MARTINÉ, M., 609  
 ARRUDA, H. C., 1102  
 ARRUDA, S. C., 1102  
 ARSENJEVA, M. V., 549  
 ASAI, T., 109b  
 ASANA, R. D., 1136  
 ASEN, S., 896  
 ASKEW, H. O., 89  
 (ASTELARRA, L.), 384  
 ATHENS, OFFICE INTERNATIONAL DU VIN, 300i  
 ATKINS, F. C., 601, 602, 1188  
 ATKINSON, R. M., 630  
 AUGER, R., 550  
 AUSTRIA, BUNDESANSTALT FÜR ALPINE LANDWIRTSCHAFT, ADMONT, 1213  
 AVAKAN, A. A., 37  
 AZEEZ, M. A., 1122  
 BABB, M. F., 620  
 BACHMANN, F., 378  
 BACK, W. B., 793  
 BACON, O. G., 641  
 BACYLEV, E. G., 746  
 BADCOCK, W. J., 1004  
 BAILEY, D. L., 674  
 BAILEY, F. L., 240, 242  
 BAILEY, J. S., 366  
 BAINES, R. C., 431b  
 BAINS, G. S., 768b  
 BAKER, G. O., 480  
 BAKER, K. F., 839, 927a  
 BALÁŠOV, P. K., 136  
 BALDACCI, E., 290  
 BALDWIN, E., 1189  
 BALSÅRD, 1212  
 BANDYOPADHYAY, K. S., 1143, 1165, 1187o  
 BARBIER, G., 431c  
 BARBOSA, I. G., 1187c  
 BARDIN, R., 633  
 BARNES, A. C., 1132, 1151  
 BARNETT, H. L., 1244b  
 BARQUERO, H., 1033  
 BARTON, L. V., 581  
 BASSHAM, J. A., 109c  
 BATCHELDER, C. H., 428  
 BATCHELOR, L. D., 939  
 BATRA, A. L., 1075  
 BAUDEWIJN, J., 303, 600  
 BAWDEN, F. C., 1190  
 BAYTON, J. A., 1011a  
 BEACH, W. S., 673  
 BEALE, H. P., 399  
 BEATTIE, J. H., 627  
 BEATTIE, J. M., 193  
 BEAUCHAMP, C. E., 1125, 1127, 1135  
 BEAUMONT, A., 927b, 927c  
 BEAVENS, E. A., 990  
 BEDFORD, C. L., 687b  
 BEECHER, F. S., 569  
 BEESON, K. C., 19  
 BEHR, L., 687c, 731  
 BEILIN, I. G., 472  
 BELGIUM, CENTRE DE RECHERCHES DE LA LIGUE POMOLOGIQUE POUR LA DÉFENSE DU FRUIT BELGE, 1217  
 BELGIUM, SERVICE DES CONSEILLERS D'HORTICULTURE DE L'ÉTAT, 481  
 BELL, H. K., 179  
 BELOHONOV, I. V., 328  
 BENEDICT, H. M., 823, 824  
 BENNE, E. J., 18, 20  
 BENNET-CLARKE, T. A., 53  
 BENSON, A. A., 109c  
 BERAN, F., 302, 412  
 BERCK, B., 559  
 BERCKS, R., 726, 727  
 BERNAUX, P., 350  
 BERNDT, O. E., 428  
 BERTONI, J., 1052  
 BERTRAMSON, B. R., 88  
 BERWICK, E. J. H., 515, 1187d  
 BEVENUE, A., 21  
 BISWAS, K., 1085  
 BITTING, H. W., 1011a  
 BLACK, L. M., 786  
 BLACK, W., 729  
 BLACKBURN, F. H. B., 1121, 1163  
 BLACKITH, R. E., 758  
 BLACKMAN, G. E., 27, 432  
 BLACKMON, G. H., 359, 1002, 1007  
 BLAIR, B. O., 510c  
 BLAIR, D. S., 124, 161, 201  
 BLAIZOT, J., 1187e  
 BLAIZOT, S., 1187e  
 BLANCHARD, L. E., 7  
 BLANCHARD, R. A., 687d  
 BLASER, H. W., 145  
 BLODGETT, E. C., 331  
 BODENSTEIN, O. F., 535  
 BÖHM, H., 302, 371, 551  
 BÖHM, L., 1191  
 BOHMONT, D. W., 444  
 BÖHNI, E., 352  
 BOLONJAEV, A. V., 140  
 BONDE, R., 738  
 BONNET, J., 815

- BOOCK, O. J., 695  
 BOOTH, V. H., 24  
 BORISENKO, T. T., 299  
 BORRI, M., 494  
 BORTHWICK, H. A., 919  
 BORTNER, C. E., 793  
 BOSAK, D. E., 245  
 BOSHER, J. E., 889  
 BOSKOOP, "DE PROEFTUIN", 1236  
 BOSWELL, J. G., 541  
 BOUBALS, D., 273, 343  
 BOULAIS, J., 992  
 BOULD, C., 188  
 BOWER, R. S., 1187f  
 BOWMAN, F. T., 190  
 BOYER, J., 836b  
 BOYLE, A. M., 830  
 BOYNTON, D., 176, 313  
 BRAAK, H. R., 1187g  
 BRANAS, J., 300c  
 BRANDES, E. W., 1140, 1187h  
 BRAUNS, A., 603  
 BREAKER, E. P., 431h  
 BREIDER, H., 391  
 BRETT, D. W., 890  
 BREŽNEV, D. D., 658, 687e  
 BRIANT, A. M., 753  
 BRICHET, J., 951  
 BRIDGE, R. E., 1184  
 BRIERLEY, P., 860  
 BRIERLEY, W. G., 318, 320  
 BRIMHALL, B., 687f  
 BRISTOL, UNIVERSITY OF, 2  
 BRITISH COLUMBIA DEPARTMENT  
 OF AGRICULTURE, 1244c  
 BRITTON, J. E., 307  
 BROUARD, J., 1187i  
 BROUGHE, C. R., 317, 431d  
 BROVEYNA, V. L., 66  
 BROWN, A. G., 169  
 BROWN, J. G., 502, 830  
 VAN DEN BRUEL, E., 741  
 BRUNK, M. E., 560  
 BRUNS, V. F., 463  
 BUCHHOLTZ, W. F., 733  
 BULLOCK, R. M., 232  
 BUNDESANSTALT FÜR ALPINE  
 LANDWIRTSCHAFT, ADMONT,  
 AUSTRIA, 1213  
 BUNDESANST. F. PFLANZENBAU U.  
 SAMENPRÜFUNG, VIENNA,  
 1242  
 BURAKOV, JA. N., 709  
 BURCHFIELD, H. P., 405, 406  
 BUREAU OF AGRICULTURAL AND  
 INDUSTRIAL CHEMISTRY, U.S.  
 DEPARTMENT OF AGRICUL-  
 TURE, 820  
 BUREAU OF ENTOMOLOGY AND  
 PLANT QUARANTINE,  
 U.S.D.A., 640, 687g, 927d  
 BUREAU TECHNIQUE ALWA, 109d  
 BURGER, I. J., 623  
 BURGESS, E. D., 431e  
 BURGOS, J. J., 16  
 BURRELL, A. B., 431f  
 BURRIS, R. H., 775  
 BURSTRÖM, H., 109e  
 BURTON, H. S., 431g  
 (BUTTERFIELD, H. C.), 2  
 DE BUY WENNIGER, W. F. M.,  
 1088  
 BUZIN, N. P., 268  
 BYERS, G. B., 793  
 BYLES, R. S., 891  
 BYRKIT, G. D., 418  
 ÇAILAHJAN, M. H., 48, 50, 109f  
 CALDWELL, L. M., 180  
 CALIFORNIA, WESTERN REGIONAL  
 RESEARCH LABORATORY, AL-  
 BANY, 300m  
 CALLBECK, L. C., 768d  
 CALVIN, M., 109c  
 CAMBRA, M., 168  
 CAMBRIDGE UNIVERSITY LIBRARY  
 1244d  
 CAMERON, C., 1144  
 CAMERON, J. W., 939  
 CAMERON, S. H., 942  
 ČAMOVA, K. G., 32  
 CAMPANILE, S., 994  
 CAMPBELL, J. C., 756  
 CAMPBELL, L., 431h  
 CANNON, H. G., 109g  
 CAPUCCI, C., 142  
 CARIBBEAN COMMISSION, 687h,  
 795a  
 CARLONE, R., 132, 216, 234a, 289  
 CARLSON, E. C., 552  
 CARLSON, R. B., 980  
 CARLSON, R. F., 489  
 CARMAN, G. E., 987  
 CARPENTER, J. B., 1089  
 CARPENTER, P. N., 716  
 CARRANTE, A., 255  
 CARRANZA, J. M., 721  
 CARRIER, L. E., 837  
 CARTER, E. P., 452, 488, 510d  
 CARVALHO, A., 1061  
 CASSIDY, M. A., 1043  
 CASTBERG, C., 231  
 CASTRONOVO, A., 768c  
 CAWTHRON INSTITUTE, NEW ZEA-  
 LAND, 1214  
 CAYEUX, H., 865  
 CAYEUX, L., 865  
 CENTRAL EXPERIMENTAL FARM,  
 OTTAWA, CANADA, 1215,  
 1216  
 CENTRE DE RECHERCHES DE LA  
 LIGUE POMOLOGIQUE POUR  
 LA DÉFENSE DU FRUIT BELGE,  
 1217  
 ČERNENKO, S. F., 125, 133  
 ČERNETČENKO, V. C., 564  
 CEYLON COCONUT RESEARCH  
 SCHEME, 1038  
 CEYLON RUBBER RESEARCH  
 SCHEME, 1218  
 CHACRAVARTI, A. S., 1170  
 CHADWICK, L. C., 906  
 CHALK, L., 1202  
 CHAN, A. P., 851  
 CHAN, N. S., 666  
 CHANDLER, S. C., 394  
 CHANG, H., 1111  
 CHAO, T. K., 1112, 1114  
 CHAO, T. T., 1124  
 CHAPARRO GONZÁLEZ, A., 1059  
 CHAPMAN, P. J., 379  
 DU CHARME, E. P., 943  
 CHEN, M. C., 1145  
 CHENAULT, M., 927e  
 CHENG, C. F., 1114, 1145  
 CHESTER, K. S., 431i  
 CHEVALIER, C., 845, 908  
 CHEVALIER, M., 927f  
 CHEYNE, O. B. M., 1037  
 CHILD, R., 1035  
 CHILDS, J. F. L., 979  
 CHILDS, W. H., 249  
 CHILTON, S. J. P., 497  
 CHIU, S. F., 818  
 CHOPINET, R., 576  
 CHOUPARD, P., 187, 411  
 CHOW, N. P., 1141  
 CHRISTIANSEN, G. S., 69, 70  
 CHU, H. T., 1156, 1160  
 CHU, T. L., 1112, 1113  
 CIFERRI, R., 772, 795b  
 CLAEYS, R., 796  
 CLAYTON, E. E., 770  
 CLAYTON, J. L., 1168  
 CLEMENTS, J. R., 206  
 COBIN, M., 1009, 1071  
 COCHRAN, F. D., 687i, 687j  
 COCHRAN, G. W., 337  
 COCHRAN, L. C., 330, 335  
 COCHRANE, V. W., 596  
 THE COCOA, CHOCOLATE AND  
 CONFECTIONERY ALLIANCE  
 LTD., 1219  
 COCONUT RESEARCH SCHEME,  
 CEYLON, 1038  
 COE, D. M., 733  
 COLE, D. J., 433  
 COLE, J. R., 300d  
 COLLINS, J. C., 769  
 COLORADO AGRICULTURAL Ex-  
 PERIMENT STATION, 1220  
 CONDIT, I. J., 143, 147  
 CONOVER, R. A., 528, 675, 677,  
 932  
 CONSTABLE, W. A., 927g  
 COOK, J., 1093  
 COOK, J. A., 189  
 COOKE, F. C., 1041, 1042  
 COOLEY, J. S., 645, 648  
 COPPENS, R., 815  
 CORDON, T. C., 768e  
 CORNS, W. G., 441, 504  
 CORREIA, F. A., 836n  
 DE CORTAZAR, C. S., 694  
 COSMO, I., 300e  
 COSTA, A. S., 782, 969, 970, 971  
 COSTANTINO, G., 376  
 COURSHÉE, R. J., 219  
 COURTNEY, W. D., 881  
 COUTANCEAU, M., 375  
 COWART, L. E., 470, 496  
 COX, C. E., 672  
 COX, J. A., 687k  
 CRAFTS, A. S., 56, 492, 510e  
 CRAIG, H. A., 503  
 CRANE, H. H., 234b  
 CRANE, J. C., 210  
 CRANE, M. B., 3  
 CRANG, A., 234c  
 CRAWFORD, R. V., 795c  
 CREECH, J. L., 922  
 CREUZBURG, U., 927h  
 CROWTHER, E. M., 1012  
 CUENOT, G., 927i  
 CUMINGS, G. A., 84  
 CUNHA BAYMA, A., 1187j  
 CUNNINGHAM, R. H., 107  
 CUNY, L., 122  
 DACKO, I. G., 949  
 DALMASSO, G., 254, 255, 256, 261,  
 262, 264, 300e, 1192



- DANIELSSON, B., 78  
 DAVID, W. A. L., 413  
 DAVIDSON, O. W., 896  
 DAVIS, A. C., 752, 753  
 DAVIS, A. N., 423  
 DAVIS, D., 385  
 DAVIS, E. A., 73  
 DAVIS, M. B., 124  
 DAVISON, J. R., 190  
 DELAP, A. V., 213  
 DELBARD, G., 103  
 DEMAREE, J. B., 338  
 DEMEL, J., 768f, 768g  
 DENISEN, E. L., 453  
 DENNIS, R. W. G., 1209  
 DENNISON, R. A., 543  
 DEONIER, C. C., 423  
 DEONIER, M. T., 647  
 DEPARTMENT OF AGRICULTURE  
 FOR SCOTLAND, 766  
 DESFLASSIEUX, A., 411  
 DETAR, J. E., 210  
 DETROUX, L., 393  
 DEUTSCHER WETTERDIENST, 11, 14  
 DHARESHWAR, S. R., 1019  
 DÍAZ, J. R., 166  
 DICKEY, R. D., 237, 907, 1002,  
 1007, 1008  
 DICKEY, R. S., 661  
 DICKINSON, D., 630  
 DILLS, L. E., 553  
 DIMITRI, M. J., 916  
 DIMOCK, A. W., 840  
 VAN DINTHER, J. B. M., 905  
 DIRECTIE VAN DE LANDBOUW,  
 WAGENINGEN, 431j  
 DIVISION OF FRUIT INSECT INVESTIGATIONS, U.S. DEPARTMENT OF AGRICULTURE, 365  
 DODDS, K. S., 768h  
 DOEHLERT, C. A., 300f, 314  
 DOIDGE, E. M., 1193  
 DOMINICK, C. B., 790  
 DONEY, C. F., 920  
 DOOLITTLE, S. P., 569  
 DOUGLAS, A., 510s  
 DOVASTON, H. F., 687 l  
 DOWNIE, W. A., 765  
 DROBKOV, A. A., 83  
 DROSDOFF, M., 1003, 1006, 1008  
 DROUZY, J., 576  
 D.S.I.R., LONDON, 234d  
 D.S.I.R., NEW ZEALAND, 1221  
 DUCRET, G., 629  
 DUFURNET, R., 1064, 1187k  
 DUKA, V. I., 687m  
 DUNCAN, T. E., 452  
 DURY, R., 102  
 DYER, P. R., 632  
  
 EASLEY, T., 478  
 EASTERBROOK, B., 468  
 EBELING, W., 1194  
 "EDDE", 323  
 EDDIE, A. H., 252  
 EDDINS, A. H., 687x  
 EDGERTON, L. J., 319  
 EGLER, F. E., 510f  
 EHRENBURG, M., 45  
 EINSET, J., 134, 145  
 EISELT, M., 1195  
 EISENMENGER, W. S., 92  
 ELDRIDGE, D. B., 84  
  
 ELGUETA, M., 1063  
 ELLE, G. O., 688t  
 ELLENWOOD, C. W., 193  
 ELLIS, N. K., 482  
 ELSOCHT, P., 813  
 (ELSOCHT, P.), 1225  
 ELWELL, H. M., 505  
 EMANUELLI, A., 492  
 EMBLETON, T. W., 176, 313  
 VAN EMDEN, J. H., 1180, 1187s  
 EMMERT, E. M., 664  
 ENSER, K., 395  
 ENTOMOLOGICAL BRANCH, N.S.W.  
 DEPARTMENT OF AGRICULTURE, 380, 533, 789, 982  
 EPPS, W. M., 570  
 ERICKSON, L. C., 483  
 ERNEHOLM, I., 1196  
 ERNST, A., 927j  
 ESSIG, E. O., 687z  
 EVANS, H., 1026  
 EVANS, W. D., 719  
 EVERETT, P., 599  
 EVREINOFF, V. A., 162, 234e, 241  
 EWART, W. H., 987  
  
 FAKUDA, A., 191  
 FARADAY SOCIETY, 1197  
 FARULKNER, F. S., 423  
 FEDOROV, M. A., 153  
 FENWICK, D. W., 768i  
 FERNÁNDEZ ARTILES, R., 1161  
 FERNÁNDEZ PÉREZ, J., 1161  
 FERNÁNDEZ VALIELA, M. V., 721  
 FERNANDO, L., 1040  
 FERNIE, L. M., 1051  
 DE FERRIÈRE, P. J. J. F., 280  
 FICHT, J., 455  
 FIDLER, J. C., 226, 230  
 DE FINA, A. L., 6, 16  
 FISCHER, C. W., Jr., 842, 843, 847,  
 927k  
 FISCHER, H., 390  
 FISCHNICH, O., 1200  
 FISHER, C. E., 508  
 FISHER, D. V., 307  
 FISHER, E. G., 189  
 FISHER, F. E., 984, 988  
 FLEMING, H. K., 665  
 FLEMION, F., 625  
 FLEROV, A. F., 64  
 FLEROV, V. A., 64  
 FLORIDA AGRICULTURAL EXPERIMENT STATIONS, 1222  
 FLOVIK, K., 707  
 DE FLUITER, H. J., 687n  
 FOGG, G. E., 59  
 FOISTER, C. E., 431k  
 DA FONSECA, J. P., 999  
 FORSEE, W. T., 952  
 FORSTER, R., 782  
 FOSKETT, R. L., 615  
 FOSS, H., 712  
 FOSTER, J. W., 1198  
 FOUNTENOT, J. F., 642  
 FRAGA, C. G., Jr., 777  
 FRAGATA JUNIOR, A. A., 1086  
 FRANCO, C. M., 95, 527, 1055,  
 1057  
 FRANDSEN, N. O. C., 927 l  
 FRANKLIN, D. F., 199  
 FRASER, G. R., 459  
 FREYRE, R. H., 926  
  
 FRIEDMAN, B. A., 763  
 FRITZSCHE, R., 198  
 FROESCHEL, P., 796  
 FRONTOU, G., 1101  
 FRY, P. R., 687o  
 FUGGET, K. A., 1011a  
 FUKUSHIMA, E., 538  
 FULTON, J. P., 637  
 FULTON, R. A., 536  
 FULTON, R. W., 788  
 FUNGICIDE COMMITTEE, AMERICAN  
 PHYTOPATHOLOGICAL SOCIETY, 403  
 FUTRAL, J. G., 452  
  
 GALLAY, R., 341  
 GANDELMAN, C. S., 768j  
 GANDHI, S. R., 1074  
 GANGOLLY, S. R., 1203  
 GANGULI, P. M., 836c  
 GARBOSKY, A. J., 6  
 GARDINER, B. O. C., 413  
 GARESE, P., 580  
 GARNER, R. J., 155  
 GASSER, R., 369, 370  
 GASTROCK, E. A., 821  
 GAUMANN, E., 722  
 GAVRILOV, N. V., 159  
 GAYFORD, G. W., 327  
 GEEROMS, A., 393  
 GEISLER, E., 414  
 GENKELI, P. A., 33  
 GEORLETTE, R., 807, 812  
 GÉRARD, M., 846  
 GERM, H., 517, 635  
 GERSTEL, D. U., 836d  
 GERTSCH, M. E., 509  
 GERRAIS, C., 572  
 GHOSH, B. P., 775  
 GIANNOTTI, O., 1065  
 GIBBENS, R. T., Jr., 499  
 GIBBERD, A. V., 1030  
 GIBSON, K. E., 751  
 GIESER, A., 454  
 VAN DER GIESSEN, C., 1015  
 GILBERT, F. A., 251  
 GILJDIÉV, S. A., 278  
 GILLE, A., 924  
 VAN GILS, G. E., 1094  
 G[LOVER], P. M., 1175  
 GLUŠČENKO, I. E., 706  
 GLUŠČENKO, N. N., 809  
 GNEDČIK, P. V., 121  
 GODOY, C., Jr., 711  
 GOGOI, T., 1079  
 GOLDSCHMIDT, V. H., 213  
 GOLUBINSKII, I. N., 814  
 GONZALEZ RIOS, P., 1106  
 GORBATJUK, D., 175  
 GORODSKAJA, O. S., 778  
 GORRIE, R. M., 1039  
 GOSS, R. W., 739  
 GOSSWEILER, J., 1013  
 GOULD, C. J., 735, 882  
 GOVINDARAJAN, S. V., 685  
 GOVINDARAJAN, V. S., 1076  
 GOVINDASWAMI, S., 1021  
 GRACE, N. H., 836e  
 GRAF, A., 702  
 GRAHAM, S. O., 331  
 GRAINGER, J., 728  
 (GRANHALL, I.), 1212  
 GRANT, T. J., 969, 970, 971  
 GRAVES, G., 156

GREAT BRITAIN, PARLIAMENT,  
836f

GREBENŠČIKOV, I., 561  
GREEN, K. R., 506  
GREENHAM, C. G., 433, 440  
GREENWOOD, M. L., 755  
GREGORY, R. L., 19  
(GREIG, A. M. W.), 1234  
GREIG, J. L., 1244e  
GRIFFITHS, A., Jr., 878  
GRIFFITHS, J. T., 988  
GRIFFITHS, J. T., Jr., 989  
GRIGGS, W. H., 210  
GROB, H., 370  
GROGAN, R. G., 633  
GROVES, K., 420  
GRUŠEVOI, S. E., 787  
GUKASJIAN, A. S., 300g  
GUKASOV, A. I., 282  
GUNCKEL, J. E., 917  
GUPALO, P. I., 58  
GURLEV, A. S., 523  
GUYOT, H., 931

H., B., 563  
DE HAAN, I., 1092  
HAAS, A. R. C., 968  
HABER, E. S., 687f, 687p  
HADFIELD, M., 912  
HAFIZ, A., 349  
HAGIWARA, J., 628  
HAGIYA, K., 520, 636  
HAGLER, T. B., 108  
HAGOOD, E. S., 498  
HAHMANN, K., 864  
HAHN, H., 109m  
HÅKANSSON, R., 109h  
HALL, J. W., 235  
HALL, N. S., 281  
HALLECK, F. E., 596  
HAMILTON, J., 1008  
HAMNER, C. L., 74, 489  
HÄNNI, H., 730  
HANSEN, H. N., 911, 925  
HARD, M. M., 687b  
HARDENBURG, E. V., 764  
HARDY, F., 1116  
HARDY, S. K., 836g  
HARLER, C. R., 1172, 1173, 1177  
HARLEY, C. P., 202  
HARRIS, F. J. T., 630  
HARRIS, R. W., 319  
HARRIS, V. C., 445, 469  
HARRIS, W. B., 348, 363  
H[ARRISON], C. J., 1175  
HARTMANN, G., 1201  
HARTMANN, H. T., 207  
HARTZELL, A., 427  
HARVEY, J. M., 911  
HARVEY, M. H., 755  
HASKELL, R. J., 645  
HASKINS, G., 321  
HASLAM, R. J., 774, 776  
HASLER, A., 90  
HAYARD DUCLOS, B., 1185  
HAVAS, L. J., 80  
HAVIS, J. R., 446  
HAVIS, L., 208, 215  
HAY, R., 257  
HAYASHI, K., 880  
HAYNES, D. W. M., 1187d  
HEAGY, A. B., 442  
HEFER, S. V., 475

HEINZE, K., 747  
HEIT, C. E., 239  
VAN HELL, W. F., 1087  
HELSON, G. A. H., 785  
HELY, P. C., 986  
HEMPHILL, D. D., 662  
HENDERSON, A. F. C., 545  
HENDERSON, C. F., 535  
(HENDERSON, M. R.), 1244h  
HENDRICKSON, A. H., 181, 184  
HENRIET, J., 510g  
HERNANDEZ, T. P., 642  
HERRELL, W. E., 398  
HES, J. W., 1098  
HESSE, C. O., 144  
HESTER, J. B., 584, 585, 687q  
HEWITT, W. B., 342  
HIELD, H. Z., 964  
HIGDON, R. J., 325  
HIGLEY, J. C., 531  
HILDITCH, T. P., 795c, 1184  
HILL, A. V., 784  
HILL, H., 309  
HILLS, K. L., 836h  
HILLSBOROUGH AGRICULTURAL  
RESEARCH INSTITUTE, N. IRE-  
LAND, 1244a  
HILTON, R. J., 719  
VAN HIMBEECK, C., 518  
HINKLE, D. A., 92  
HINTZE, S., 514  
HIRAI, K., 311  
HIRAOKA, T., 628  
HIRSCHHORN, E., 1187l  
HITCHCOCK, A. E., 462  
HITSKA, J., 311  
HOADLEY, A. D., 584, 585  
HOARE, E. R., 219  
HOBBS, J. A., 88  
HOCKING, B., 172  
HODGSON, J. M., 456, 464  
HODGSON, R. W., 930, 947  
HOED, F., 813  
(HOED, F.), 1225  
HOFFMANN, A., 877  
HOLLIS, J. P., 739  
HOLMBERG, G., 699  
HOLODNYI, N. G., 39, 965  
HOLTUM, R. E., 892  
VAN DEN HONERT, T. H., 55  
HONIG, P., 1095  
HOOKER, W. J., 733  
HOPKINS, E. F., 993  
HOPKINS, H. T., 76  
HOPP, R., 438, 516, 687r  
HORTICULTURE DIVISION, NEW  
ZEALAND DEPARTMENT OF  
AGRICULTURE, 304  
HOUGHLAND, G. V. C., 715  
HOUTMAN, G., 529  
HOWARD, H. W., 768b  
HOWES, F. N., 808  
HSU, K. H., 1115  
HUBBARD, E. S., 223  
HUDON, M., Jr., 687s  
HUGHES, C. G., 1152, 1153  
H[UGHES], C. G., 1154  
HUGHES, G. K., 80j  
HUGLIN, P., 273, 343  
HULBURT, W. C., 84, 101  
HUME, E. P., 926  
HUNTER, A. W. S., 78, 124, 301  
HUNTER, R. F., 75  
HUNZIKER, J. H., 927m, 927n

HUSSAIN, M. Z., 1166  
HYDE, E. O. C., 457  
IBRAGIMOV, G. R., 652  
I.F.A.C. [INSTITUT DES FRUITS ET  
AGRUMES COLONIAUX], 1023  
IGNATJEV, B. D., 902  
IJIMA, T., 577  
ILJIN, G. S., 781  
ILJINSKII, A. A., 141  
ILJUŠČENKO, K. L., 135  
INDIAN CENTRAL SUGARCANE  
COMMITTEE, 1223  
INDIAN TEA ASSOCIATION, TOCK-  
LAI, 1224  
INFORZATO, R., 1057, 1058, 1187m  
INGELSTRÖM, E., 872  
INGRAM, C., 910  
INNES, R. F., 1119, 1126  
INNISS, B. DE L., 1103  
INSTITUT DES FRUITS ET AGRUMES  
COLONIAUX, [I.F.A.C.], 1023  
INSTITUT NATIONAL BELGE DU  
HOUBLON, 1225  
INSTITUUT VOOR BEWARING EN  
VERWERKING VAN TUIN-  
BOUWPRODUCTEN, WAGEN-  
INGEN, 224  
INSTITUUT VOOR TUINBOUWTECH-  
NIEK, WAGENINGEN, 1226  
IOWA AGRICULTURAL EXPERI-  
MENT STATION, 1227  
IRISH, C. F., 906  
ISENBERG, F. M., 521  
ISHIGURO, K., 649  
IVANOVSKAJA, T. L., 670  
JAKUŠKINA, N. I., 669  
JAMES, E., 510h  
JAMIESON-CRAIG, T., 1149  
JANCKE, O., 431l  
JANES, B. E., 542, 543  
JARAMILLO J., G., 1164  
JARDINE, F. A. L., 283  
JAŠČUK, A. P., 744  
JEFFREE, J. H., 322  
JELITTO, C. R., 1195  
JELITTO, L., 1207  
JENKINS, W. A., 792  
JENSEN, D. D., 927o  
JIMÉNEZ J., J., 1054  
JIMÉNEZ, O., 997  
JOHANSSON, E., 111, 158  
JOHNS, R., 1030  
JOHNSEN, E. M., 146  
JOHNSON, B. L., 878  
JOHNSON, F., 351  
JOHNSON, H. B., 948  
JOHNSON, W. A., 522, 639  
JOHNSON, W. H., 420  
JOHNSTON, A. E., 114  
JOHNSTON, B. R., 20  
JOHNSTON, J. M., 1244i  
JOHNSTON, R. E., 115  
JONES, L. S., 431t  
JONES, W. W., 954, 959  
DE JONG, P., 1179  
JORDAN, J. V., 525  
JORGENSEN, H., 688r  
JOSLYN, M. A., 687t  
JUDKINS, W. P., 253  
JUNE, R. I., 901  
JUNGERMANN, K., 524  
JUNKINS, S. C., 716



- KAGEYAMA, M., 628  
 KAKUKAWA, T., 835  
 KALIN, E. W., 881  
 KALINKEVIČ, M. I., 802  
 KALJUŽNYI, A. F., 277  
 KALSHOVEN, L. G. E., 1199  
 KAMEMOTO, H., 853, 855, 856  
 KANEHIRA, R., 832  
 KARA-MURZA, L. H., 26  
 KARNATZ, H., 160  
 KÁŠ, V., 279  
 KASAHARA, Y., 510i, 510j  
 KASPAROVA, S. A., 696  
 KASTENDIECK, M., 316  
 KATO, T., 591  
 KATZNELSON, H., 399  
 KAUSHAL, R., 836a  
 KAWARADA, M., 646  
 KAZJMIN, G. T., 139  
 KEDRIN, S. P., 131  
 KEHREN, L., 1080  
 KEISER, I., 535  
 KELLER, J. R., 861  
 KELLEY, R. A., 745  
 KELSHEIMER, E. G., 687x  
 KELSICK, R. E., 1120, 1187n  
 KENNARD, W. C., 247  
 KENTUCKY AGRICULTURAL EXPERIMENT STATION, 1228  
 KENWORTHY, A. L., 146, 192  
 KENYA DEPARTMENT OF AGRICULTURE, 1229  
 KESTERSON, J. W., 996  
 KHAN, M.-U.-D., 963  
 KHAN, M. H., 421  
 KHANNA, K. L., 1138, 1139, 1142, 1143, 1165, 1166, 1170, 1187o  
 KIDD, F., 229  
 KIESSELBACH, T. A., 638  
 KIETREIBER, M., 635  
 KIMURA, K., 604, 608  
 KIMURA, M., 1001  
 KING, N. J., 1108  
 KIRBY, R. H., 806  
 KIRJALOV, N. P., 836i, 836j  
 KIRKPATRICK, T. W., 1031  
 KIRPAL SINGH, K., 991  
 KIRYU, T., 1157  
 KLEVSTRAND, R., 22  
 KLIMENKO, V. G., 588  
 KLINKER, J. E., 664  
 KLOTZ, L. J., 978  
 KNOTT, J. E., 632, 921  
 KNOWLES, W. H. C., 1144, 1155  
 KNUST, H. G., 449, 1147, 1150  
 KOBJAKOVA, A. M., 768q  
 KOČERŽENKO, I. E., 965  
 DE KOCK, P. C., 75  
 KÖHLER, E., 725  
 KOIZUMI, T., 835  
 KOJIMA, H., 68  
 KOLOBKOVA, E. V., 30  
 KONDO, M., 510i, 510j  
 KONOPLEV, N. A., 950  
 KONTORET FOR LANDBRUKSFORSKNING, 1243  
 KORDON, R. JA., 130  
 KORIBA, K., 109i  
 KOZLOV, V. E., 660  
 KRAMER, P. J., 60  
 KRANTZ, F. A., 768k  
 KRASNOŠČEK, I. F., 174  
 KRAUS, J. E., 620  
 KREMER, J. C., 170  
 KRESS-RICHTER, I., 109n  
 KREUTZ, W., 12, 760  
 KRICKL, M., 512, 517  
 KRISHAN, R., 1110  
 KRISHNA, P. G., 1131  
 KRISHNA MENON, K., 810  
 KRUG, C. A., 1048, 1061  
 KRÜSSMANN, G., 1195  
 KRUŽILIN, A. S., 540  
 KUDRJAŠOVA, N. A., 31  
 KÜHNE, H., 555  
 KUMAR, L. S. S., 471  
 KUROI, I., 191  
 KUTALEVA, T. S., 270  
 KUWABARA, T., 590  
 KUZNECOVA, G. A., 836o  
 KVASNIKOV, B. V., 579  
 LABBE, A., 458  
 LADEBURG, R. C., 723  
 (LA FACE, D.), 801  
 LAGASSE, F. S., 1002  
 LAGUTINSKAJA, N. S., 293  
 LAI, T. M., 1187u  
 LAIBACH, F., 1200  
 LAKSHMIKANTA, S. R., 685  
 LALL, B. S., 748  
 LAMB, J. G. D., 214  
 LAMB, R. C., 234s  
 LAMBERS, D. H. R., 364  
 LAMM, R., 514  
 LAMPRECHT, H., 622  
 LANA, E. P., 485  
 LANDIS, B. J., 751  
 LANE, C. R., 998  
 LANGE, W. H., Jr., 552  
 LANJOUW, J., 1  
 LAPIN, V. K., 945  
 LARSON, R. E., 665  
 LARSON, R. H., 547, 697, 723, 724  
 LAŠUK, G. I., 779, 780  
 LATIMER, R. D., 474  
 LAURIE, A., 900  
 LAURITZEN, J. I., 1109  
 [LAWES AGRICULTURAL TRUST], ROTHAMSTED, 1237, 1238  
 LAZURJEVSKIĭ, G. V., 77  
 LEA, A. O., 687u  
 LEACH, L. D., 682  
 LEBEDEVA, N. A., 703  
 LECRENIER, A., 287  
 LEE, A. E., 36  
 LEFÈVRE, P. C., 597  
 LEGGETT, H. W., 510k  
 LEONARD, O. A., 445, 469  
 LEPAGE, H. S., 1065  
 LE RICHE, F. J. H., 623  
 LEROY, A., 895  
 LESJUK, E. A., 129  
 LEVAC, C., 804  
 LEVITT, E. C., 986  
 LEWIS, F. J., 57  
 LEWIS, N. G., 510 l  
 LEYENDECKER, P. J., Jr., 687v  
 LEYVRAZ, H., 284  
 LHOSTE, J., 415  
 LI, K. Y., 1124  
 LIEBEL, L. N., 805  
 LIENK, S. E., 379  
 LIEU, K. O. V., 983  
 LIN, L. C., 849  
 LINDE, P. E., 291  
 LINDBERG, G., 687w  
 LINDER, P. J., 82  
 LINTON, R. D., 1029  
 LIPS, H. J., 836e  
 LISO, A., 197  
 LITTLE, V. A., 362  
 LIYANAGE, D. V., 1036, 1041  
 LIZANO, F., 1060  
 LLOYD, N. C., 750  
 (LOCK, G. W.), 1240  
 LOEWEL, E. L., 234f, 347, 389  
 LOGINÝČEVA, A. G., 244  
 LONDON, D.S.I.R., 234d  
 LOOMIS, W. E., 95  
 LOOS, C. A., 1178  
 LOTT, T. B., 332  
 LOTT, W. L., 281  
 LOUCKS, K. W., 993  
 LOUISIANA STATE UNIVERSITY, 532  
 LOUPO, M. W., 109j  
 LOUSTALOT, A. J., 510m  
 Löw, I., 1187p  
 LOWRY, S. J., 180  
 LUBATTI, O. F., 758  
 LUCKWILL, L. C., 329  
 LUDBROOK, W. V., 429  
 LUGINBILL, P., 534  
 LUKIN, N., 836k  
 LUNDEGÅRDH, H., 54  
 LUTZ, J. M., 768n  
 MACARTHUR, M., 309  
 MCCARTNEY, J. S., 320  
 MCCLEAN, A. P. D., 972, 973  
 MCCLELLAN, W. D., 873, 887  
 MCCLOURE, T. T., 644  
 MCCOMB, E. A., 23  
 MCCREADY, R. M., 587  
 MCCUBBIN, E. N., 687x  
 MCDERMOTT, N., 689  
 McDONALD, B. K., 510n  
 MACDONALD-SMITH, S., 1029  
 MACDONNELL, L. R., 1011b  
 McDUFF, O. R., 996  
 MACGILLIVRAY, J. H., 656, 714  
 McGRATH, J. V., 116  
 MCGREGOR, W. G., 571  
 MACHADO, F. A., 431q  
 MCKEEN, C. D., 653  
 McLARTY, H. R., 312  
 MacLEAN, A. J., 571  
 MacLEAN, D. B., 836 l  
 MacLEAN, N. A., 927a  
 MACLINN, W. A., 756  
 McNEW, G. L., 405, 406  
 MAEKAWA, T., 556  
 MAGRUDER, R., 620  
 MAHESHWARI, P., 927p  
 MAKAREVSKAJA, E. A., 269  
 MAKAROV, S. N., 276  
 MAKHDUM, N. A., 234g, 687y  
 MAKOVECKIĭ, N. I., 265  
 MALAGUTI, G., 836m  
 MALAN, E. F., 940  
 MALBERTY GARCÍA, F., 1146  
 MALLO, R. G., 419  
 MALYŠEV, A. A., 28  
 MANARESI, A., 157, 286  
 MANCINI, F., 195  
 MANIG, M., 109k  
 MANN, C. E. T., 1084  
 MANNING, H. E., 41  
 MANSFELD, K., 396  
 MANSKE, R. H. F., 836 l  
 MANTELL, C. L., 808

- MANUEL, H. L., 272  
 MARCHIONATTO, J. B., 975  
 MARGGRAF, M., 1201  
 MARIÑO MORENO, E., 934  
 MARINUCCI, M., 119, 149, 234h, 234i  
 MARION, L., 798, 836 i  
 MARLOTH, R. H., 928  
 MARQUES MESA, A., 401  
 MARRIOTT, P. F., 167, 267  
 MARSH, G. L., 942  
 MARSH, R. W., 404, 1230  
 MARSHALL, B. H., Jr., 873  
 MARSHALL, E. R., 766  
 MARTH, P. C., 202, 208, 589, 767  
 MARTIN, E. R. H., 1117, 1187q  
 MARTIN, H., 431m  
 MARTIN, J. P., 976, 977  
 MARTIN, W. J., 643  
 MARUTJAN, S. A., 292  
 MASLENNIKOVA, V. A., 77  
 MASSEE, A. M., 392, 431n  
 MATSUBARA, S., 646  
 MATTHEWS, R. E. F., 547  
 MATTUS, G. E., 233  
 MAURER, K. J., 212, 298  
 MAURÍE, A., 196  
 MAURIZIO, A., 90  
 MAYER, K., 610  
 DE MEDINA, A. R., 1067  
 MEDINA, D. M., 1046  
 MEDINA, J. C., 1068  
 MEHREN, G. L., 258  
 MENDES, A. J. T., 1045  
 MENDES, C. H. T., 1062  
 MENDES, J. E. T., 1049  
 MENDES DA PONTE, A., 510o  
 MENZIES, J. D., 736, 768 l, 768m  
 MERROW, S. B., 516  
 MERŽANIAN, A. S., 300h  
 METCALF, R. L., 980  
 METCALFE, C. R., 1202  
 MICHALEK, G. A., 418  
 MICHEL, H., 903  
 MICHELBACHER, A. E., 385, 656, 687z  
 MIDDLEKAUFF, W. W., 385  
 MIESCHER, G., 402  
 MIHASI, T., 605  
 MIKKELSEN, D. S., 314  
 MILANO, V. A., 913  
 MILBRATH, J. A., 334  
 MILES, H. W., 530  
 MILLER, H. E., 1083  
 MILLER, J. C., 642  
 MILLER, R. C., 501  
 MILLINGTON, W. F., 917  
 MINISTRY OF AGRICULTURE, LONDON, 234j, 234k, 234 l, 510p, 654, 655, 888  
 MIRIMANJAN, V. A., 946  
 MIROŠNIČENKO, K. G., 72  
 MISHANEC, W., 836d  
 MITAL, S. P., 1158  
 MITCHELL, A. E., 146  
 MITCHELL, J. W., 82, 589  
 MIYAWAKI, Y., 604, 606  
 MJAZDRIKOVA, M. N., 626  
 MOEWUS, F., 720  
 MOLINA B., L., 690  
 MONSI, M., 109 l  
 MONTANARI, V., 112  
 MONTEALEGRE, M. R., 1050  
 MONTEIRO, R. F. R., 834  
 MONTFORT, C., 109m, 109n  
 MONTGOMERY, H. B. S., 345  
 MONTSERIN, B. G., 1027  
 MOON, H. H., 202  
 MOORE, C. A., 657  
 MOORE, W. D., 528  
 MORALES M., E., 598  
 MORDKOVIČ, M. S., 135  
 MOREIRA, S., 969, 970, 971  
 MORGAN, C., 786  
 MORGAN, C. N., 545, 929  
 MORITA, Y., 182  
 MORRISON, R. D., 1171  
 MOŠKOV, B. S., 42  
 MOTIER, P., 668  
 MOULTON, F. S., 217  
 MOULTON, J. E., 489  
 MOUTON, J. A., 623  
 MULDER, D., 315  
 MULLER, A. S., 1018  
 MÜLLER, H., 864  
 MÜLLER-STOLL, W. R., 288  
 MUNGOMERY, R. W., 1162  
 MURAMASU, H., 148  
 MURNEEK, A. E., 200, 203, 662  
 MUSKETT, A. E., 346  
 MYODO, M., 556  
 NAEF-ROTH, S., 354  
 NAIK, K. C., 944, 1070, 1072, 1203  
 NAKAJIMA, Y., 883  
 NAKATA, K., 688a, 688b, 795d, 795e  
 NAKAYAMA, T., 605  
 N.A.K.B., NEDERLANDSE ALGEMENE KEURINGSDIENST VOOR BOOMKWEKERIJGEWASSEN, 236  
 NARAYANASWAMI, S., 894, 927p  
 NATHANAEL, W. R. N., 1041  
 NATION, H. A., 510q  
 NATIONAL RESEARCH COUNCIL OF CANADA, 1244f  
 NATTRASS, R. M., 819  
 NAUDÉ, C. J., 940  
 NAUMENKO, N. P., 270  
 NAVARRO, G., 691  
 NAVARRO B., E., 611  
 NAYLOR, A. W., 73  
 NEDERLANDSE ALGEMENE KEURINGSDIENST VOOR BOOMKWEKERIJGEWASSEN (N.A.K.B.), 236  
 NEGRULI, A. M., 260  
 NEMIROVSKAJA, E. I., 293  
 NESTERENKO, P. A., 879  
 NETTLES, V. F., 671  
 NEUBERT, A. M., 1206  
 NEWCOMB, E. H., 1090  
 NEWHALL, A. G., 594  
 NEW JERSEY AGRICULTURAL EXPERIMENT STATION, 1231  
 NEWMAN, A. S., 510r  
 NEWMAN, K. J., 17  
 NEWTON, H. C. F., 431o  
 NEWTON, W., 889  
 NEW YORK STATE AGRICULTURAL EXPERIMENT STATION, 1232, 1233  
 NEW ZEALAND DEPARTMENT OF AGRICULTURE, HORTICULTURE DIVISION, 304  
 NEW ZEALAND DIVISION OF HORTICULTURE, 1234  
 NEW ZEALAND, D.S.I.R., 1221  
 NICKELL, L. G., 152  
 NICKELS, C. B., 388  
 NICOLINI, J. C., 344  
 NIGAM, L. N., 1165  
 NILSSON, A., 866  
 NISHI, S., 591  
 NISIKADO, Y., 604, 605, 606, 608  
 NISWANDER, R. E., 687u  
 NIZI, G., 377  
 NOLL, C. J., 688d  
 NORDAL, A., 22  
 NORO, K., 683  
 NORTH-COOMBES, G. A., 1069  
 NORTHERN IRELAND AGRICULTURAL RESEARCH INSTITUTE, HILLSBOROUGH, 1244a  
 NOTTAGE, I. L., 117  
 NOVA SCOTIA FRUIT GROWERS' ASSOCIATION, 1235  
 N.S.W. DEPARTMENT OF AGRICULTURE, ENTOMOLOGICAL BRANCH, 380, 533, 789, 982  
 NUGENT, T. J., 688c  
 NYHLÉN, Å., 250  
 NYLUND, R. E., 490, 768n  
 ODLAND, M. L., 521, 553, 666, 688d  
 O.E.E.C., 1244g  
 OFFICE INTERNATIONAL DU VIN, ATHENS, 300i  
 OGURO, E., 538  
 OKABE, Y., 62, 63  
 OKADA, M., 857  
 OKANENKO, A. S., 65  
 OKNINA, E. Z., 33, 34  
 O'LEARY, E. H., 118  
 DE OLIVEIRA E CASTRO, F. R., 941  
 OLNEY, A. J., 180  
 OLSEN, R. W., 989  
 OLSON, J., 625  
 OLSON, P. J., 510s  
 OLTSMANN, W., 79  
 ONO, M., 148  
 ONO, T., 574, 575  
 VAN ONSEM, R., 5  
 ORCHARD, H. E., 466, 507  
 ORGANIZATION FOR EUROPEAN ECONOMIC CO-OPERATION, 1244g  
 OSWALD, J. W., 682  
 OTAMENDI, J. C., 361  
 OTOYA, F. J., 1032  
 OTTAWA, CENTRAL EXPERIMENTAL FARM, 1215, 1216  
 OVERLEY, F. L., 177  
 OWEN, O., 688e  
 OZEROV, G. V., 154, 822, 825  
 OZOL, A. M., 297, 923  
 PADEN, W. R., 586  
 PAGE, N. R., 586  
 PAIVA CASTRO, G., 836n  
 PALINSKY, J., Sr., 904  
 PALMITER, D. H., 408  
 PAMMER, F., 513  
 PANČENKO, V. G., 81  
 PAPE, H., 870  
 PARKER, E. R., 954, 959  
 PARKER, M. W., 919



- PARKS, N. M., 768o  
 PARLIAMENT, GREAT BRITAIN, 836f  
 (PARRIS, G. K.), 567  
 PARRIS, G. K., 568  
 PATRON, A., 234m  
 PAWAR, S. S., 557  
 PEECH, M., 953  
 TER PELKWIJK, A. J., 238  
 PENTZER, W. T., 206  
 PEPPIN, S. G., 768p  
 PERRET, J.-E., 875  
 PERUCCI, E., 794  
 PETERS, B. G., 740  
 PETERSON, C. E., 453, 615  
 PETERSON, J. B., 29  
 PETROČENKO, E. I., 718  
 PETROV, E. M., 234n  
 PETROVA, O. A., 827  
 PEUCKI, F., 705  
 PEYNAUD, E., 196  
 PEITZER, P., 1207  
 PHILIPP, F., 511  
 PHILLIP, A. G., 1011c  
 PHILLIPS, R. P., 467  
 PIERCE, W. C., 388  
 PIGULEVSKI, G. V., 836o  
 PILARZ, J., 61  
 PILET, P.-E., 903  
 PINEDA P., M. A., 1097  
 PIÑERO, M., 1044  
 PINKNEY, C. C., 388  
 PINTO F., R. J., 1133  
 PLAKIDA, E. K., 293  
 PLANT, A., 100  
 PLANTENZIEKTENKUNDIGE DIENST,  
 WAGENINGEN, 305  
 PLATONOVA, E. M., 523  
 PLATONOVÁ, R., 279  
 PLINKA, A. D., 612, 688f  
 PODOPRIGODA, G. A., 1011d  
 DE POERCK, R. A., 1078  
 POLEŠČUK, P. M., 688g  
 POLLACK, B. L., 665  
 POLLARD, A., 294  
 PONTIS V., R. E., 836m  
 POPCOV, A. V., 828  
 POPOVA, E. M., 546  
 PORRITT, S. W., 307  
 PORTER, D. R., 684  
 PORTER, W. K., Jr., 500  
 PORTÈRES, R., 1022  
 PORTOLANO, N., 1010  
 PORUCKI, G. V., 704  
 POST, K., 852, 853, 854, 855, 856,  
 899  
 POTAPENKO, JA. I., 259, 285  
 POTTER, E. F., 21, 23  
 POWELL, S., 109a  
 POWERS, W. L., 525  
 POWNING, R. F., 417  
 PRATT, O. E., 1130  
 PRESTON, R. D., 52  
 PRIMAK, A. K., 186  
 PRINCE, V. E., 208  
 PRIVALOV, A. F., 617  
 "DE PROEFTUIN" TE BOSKOOP,  
 1236  
 PROESCHEL, A., 817  
 PROKOŠEV, S. M., 717, 718  
 PUBOLS, B. H., 935  
 PUHTINSKI, JU. E., 138  
 PUPPO, A., 274  
 PURDUE, C. E., 688h  
 PY, C., 1014, 1082  
 QUEIROZ, J. DE B. R., 126  
 RADOVANOVIĆ, V., 263  
 RAHEJA, P. C., 1122, 1137, 1138,  
 1139  
 RANDALL, T. E., 735  
 RANGHEL GALINDO, A., 1017  
 RAO, D. A. A. S. N., 1187r  
 RAO, M. V. V., 471  
 RAPPLEYE, L. E., 919  
 RASMUSSEN, A. O., 927q  
 RATERA, E. L., 693  
 RAWLINS, W. A., 752, 753  
 REA, H. E., 101  
 REBOUR, H., 296, 1011e, 1011f  
 REED, J. P., 756  
 REES, W. J., 618, 1020  
 REICH, —, 324  
 REICH, H., 347, 382  
 REINECKE, V., 562  
 REINKING, O. A., 594  
 REITSMA, J., 1180, 1187s  
 REITZ, H. J., 957, 961, 989  
 REUTHER, W., 960  
 REYNARD, G. B., 684  
 REYNOLDS, H. T., 749  
 RIAL ALBERTI, F., 1183  
 RIAZ-UR-RAHMAN, 234g, 687y  
 RIBBANDS, C. R., 848  
 RIBEIRO DOS SANTOS, S., 777  
 RICH, A. E., 759  
 RICHARDS, A. V., 938  
 RICHARDS, B. L., 333, 336  
 RICHTER, W., 1207  
 RIOLLANO, A., 1107  
 RIPLEY, P. O., 510t  
 RITCHIE, E., 800  
 RIVERA H., R., 1024  
 RJADNOVA, I. M., 150  
 ROARK, R. C., 431p  
 ROBBINS, W. R., 251  
 ROBBINS, W. W., 486, 1204  
 ROBERTS, K. C., 1090  
 ROBERTSON, R. N., 234o  
 ROBINSON, A. R., 17  
 ROBINSON, J. B. D., 1118  
 ROBY, F., 127, 128  
 ROCKLAND, L. B., 990  
 RODRIGUEZ CABRERA, M., 1105  
 RODWELL, C. N., 836h  
 ROESSL D., H., 110  
 ROHWER, C., 109p  
 ROJAS PEÑA, E., 1032  
 ROMNEY, V. E., 826  
 DE ROPP, R. S., 109q  
 ROSELLA, E., 163, 367  
 ROSENDO VELASQUEZ, B., 1025  
 ROSS, E., 308  
 ROSTON, P. J., 106  
 RÖSZLER, P., 96  
 ROTHAMSTED EXPERIMENTAL STA-  
 TION, 1237, 1238  
 ROTHROCK, J. W., 799  
 ROTOR, G., Jr., 893  
 LE ROUX, M. S., 291  
 ROWLEY, M. W., 1100  
 ROYAL INSTITUTE FOR THE INDIES,  
 AMSTERDAM, 1211  
 RUBBER RESEARCH SCHEME, CEY-  
 LON, 1218  
 RUBIN, B. A., 706  
 RUBIN, S. M., 271  
 RUBIN, S. S., 174, 175  
 RUDOLF, W., 698  
 RUEHLE, G. D., 932, 1009  
 RUPČEVA, I. A., 48, 49, 109f  
 RUSANOVA, A. P., 688i  
 RUSSELL, E. W., 710  
 RUSSO, G., 360  
 RUTTER, A. J., 27  
 RYALL, A. L., 948  
 RYKER, T. C., 470, 496, 509  
 RYŽKOV, V. L., 778  
 SABELYEVA, O. N., 717  
 SÁENZ MAROTO, A., 1047  
 SAITO, K., 844  
 SAKURAI, S., 646  
 SALDARRIAGA V., M., 1053  
 SALEH, W., 797  
 SALMON, E. S., 811  
 SAMOILOVA, S. A., 94  
 SAMYGIN, G. A., 47, 109r  
 SANDERSON, M., 109s  
 SANNIKOV, V. S., 164  
 SAPOŽNIKOV, D. I., 25  
 SARAVIA, M., 1016  
 SARTORIS, G. B., 1109  
 SATAROVA, N. A., 35  
 SATCHELL, D. P., 281  
 SATYANARAYANMURTHY, K., 651  
 SAVAGE, E. F., 488  
 SAVARY, A., 373  
 SAVELJEVA, O. N., 706  
 (SAX, K.), 914  
 SCARAMUZZA, L. C., 1161  
 SCARAMUZZI, G., 795b  
 SČASTLIVÝ, A. K., 234p  
 ŠČEPOTJEV, F. L., 299  
 SCHACHT, W., 1195  
 SCHÄR, A., 295  
 SCHEFFER, R. P., 548  
 SCHEKNAYDER, C. A., 443  
 SCHMALFUSS, K., 91  
 SCHMIDT, W. A., 667  
 SCHMITT, L., 524  
 SCHNEIDER, F., 368  
 SCHNELLE, F., 13, 109t  
 SCHOE, E. J., 17  
 SCHÖNHERR, K.-E., 757  
 VAN SCHOONNEVELDT, J. C., 1091  
 SCHOOREL, A. F., 1176  
 SCHOPMEYER, G. E., 768a  
 SCHULTZ, E. S., 767  
 SCHUPHAN, W., 537  
 SCHWANITZ, F., 868  
 SCJARONI, R. H., 552  
 SCOTLAND, DEPARTMENT OF AGRI-  
 CULTURE FOR, 676  
 SCOTT, C. E., 656  
 SCOTT, N. J., 841  
 SCOTTISH SOCIETY FOR RESEARCH  
 IN PLANT-BREEDING, 1239  
 SEELEY, J. G., 898, 899  
 SEELY, C. I., 436  
 SEFTEL, I. M., 4  
 SELLSCHOP, J. P. F., 831  
 SEMPIO, C., 38  
 SERGEEV, L. I., 211  
 SERRA, G., 1044  
 SERVICE DES CONSEILLERS D'HOR-  
 TICULTURE DE L'ÉTAT, BEL-  
 GIUM, 481  
 SESSELER, W. M., 995, 1081  
 SEVENSTER, S., 708  
 SEXSMITH, J. J., 510u  
 SHAH, S. M. I., 10

- SHANKS, J. B., 900  
SHARMA, S. L., 1142, 1143, 1166  
SHARVELLE, E. G., 355, 356  
SHAW, F. R., 366  
SHAW, J. G., 981  
SHEAR, S. W., 258  
SHEFFIELD, F. M. L., 1034  
SHERMAN, R. W., 109u  
SHIFFRIS, O., 688j  
SHIH, S. C., 1112, 1113  
SHIRAKI, T., 148  
SHIRLEY, R. L., 18  
SHIVAPURI, T. N., 510v  
SIEGEL, S. M., 40  
SIINO, H., 927s  
SILBERSCHMIDT, K., 663  
SILVA, P., 1187t  
SIMMONDS, F. J., 1159  
SIMONOV, I. N., 243  
SIMPSON, K., 93  
SIMURA, T., 1174, 1181  
SINGAPORE BOTANIC GARDENS,  
1244h  
SINGH, S., 991  
SINGH, S. B., 1110  
SISAKJAN, N. M., 32, 86, 292, 768q  
SISAL EXPERIMENTAL STATION,  
TANGANYIKA, 1240  
SITES, J. W., 956, 961  
SIVORI, E. M., 869  
SKELDING, A. D., 618  
SKEPPER, A. H., 185  
SKODVIN, K. H., 218  
SLATE, G. L., 239  
SLATER, R. R., 70  
SMART, H. F., 648  
SMIRNOW, L., 918  
SMITH, A. M., 93  
SMITH, E. L., 234q  
SMITH, F. F., 536  
SMITH, G., 1205  
SMITH, G. E., 585  
SMITH, H. H., 771  
SMITH, K. M., 619, 838  
SMITH, M. G., 123  
SMITH, O., 766  
SMITH, P. F., 960  
SMITH, P. G., 650  
SMOCK, R. M., 1206  
SNAPP, O. I., 387  
SNYDER, J. C., 248  
SNYDER, W. E., 837  
SODHI, G. S., 1075  
SOKOL, P. F., 761  
SOLIMAN, G., 797  
SOLOMON, S., 471  
(SOLOMON, S. E.), 1099  
SOUSA, L. O. M. DA COSTA E., 266  
SOUTHWICK, L., 510w  
DE SOUZA, A. J., 1187m  
SOUZA, D. A., 431q  
SPEER, M., 1066  
SPEIRS, J. M., 1244i  
SPEYER, W., 688k  
SPIRHAZL, J., 173  
SPOON, W., 1081  
v. SPRONSEN, A. C., 565  
SPURLING, M. B., 962  
SRB, A. M., 109w  
SREENIVASAYA, M., 1076  
STAMPER, E. R., 491, 496, 497, 509  
STAPLEY, J. H., 862  
STAPP, C., 829  
STARNES, O., 754  
STATENS FORSGSVIRKSOMHED  
PLANTEKULTUR, 300j  
STEARN, W. T., 867  
STEELANT, L., 5  
STEINBERG, R. A., 783  
STERLING, C. R., 437  
STEVENSON, G. C., 493, 1104  
STEWART, F. C., 85  
STEWART, A. B., 1012  
STEWART, N., 221  
STEWART, W. S., 964  
STILL, G. W., 425  
STIRLING, W. F., 927r  
STODDARD, D. L., 528, 675  
STOECKELER, J. H., 326  
STOEVE, K. D., 300h, 300k  
STOLL, K., 198  
STORRS, E. E., 427  
STOUT, G. L., 431s  
STUART, N. W., 98, 858, 882, 886  
STURDY, M., 234c  
SUGAWARA, T., 519  
SUGIYAMA, T., 591  
SUN, V. G., 1141  
SUTOVA, N. N., 985  
SVENSSON, V., 622  
SWARTWOUT, H. G., 409  
SWINGLE, C. F., 205  
SWITHINBANK, D. J., 397  
SYLVÉN, E., 381  
SYLVESTER, E. S., 6881, 688m  
TABENCKII, D. A., 65  
TABORDA PESSANHA, M. V., 1086  
TAGEEVA, S. V., 66  
TAKIMOTO, S., 688a, 688b, 795d,  
795e  
TALGERI, G. M., 1019  
TALLEY, P. J., 451, 500  
TAMURA, T., 885  
TAN, A. K., 515  
TANGANYIKA SISAL EXPERIMENTAL  
STATION, 1240  
TANNER, W. L., 439  
TANTAU, M., 1207  
TARJAN, A. C., 909  
TASUGI, H., 927s  
TATMAN, E. C., 627  
TAYLOR, C. A., 823  
TAYLOR, G. M., 927t  
TELFER, S. S., 487  
TELLER, M. N., 355, 356  
TEREŠČENKO, E. F., 744  
TERMAN, G. L., 716  
TEŠIČ, Ž., 688n  
THAURY, J., 688o  
THIMANN, K. V., 69, 70  
THOMAS, F. B., 194  
THOMAS, H. R., 592, 593  
THOMAS, J. R., 510r  
THOMAS, P. H., 151  
THOMPSON, H. C., 557  
THOMPSON, J. F., 85  
THORNE, D. W., 310  
THORNE, G., 431b  
THORNTON, B. J., 444  
THURSTON, H. W., Jr., 410  
(TICQUET, C. E.), 97  
TILFORD, P. E., 906  
TILKIN, N., 573, 659  
TILL, M. R., 430  
TIMMONS, F. L., 434, 484  
TINGEY, D. C., 434  
TITILEY, E. A., 416  
TITUS, R. W., 1187f  
TKACENKO, F. A., 564  
TOCKLAI, INDIAN TEA ASSOCIATION, 1224  
TOKUMASU, S., 538  
TOMALIN, T. E., 234b, 234r  
TOMETORP, G., 514  
TOMPKINS, C. M., 876, 925  
TOOLE, E. H., 76  
TOPI, M., 290  
TORKA, M., 700  
TORPEN, E., 228  
TORREY, J. G., 67  
TRAVERS, S. J., 435  
TRAVERSI, B. A., 734  
TRÉBUCHET, G., 576  
TREHAN, K. N., 1019  
TSAI, T. K., 1160  
TUCKER, C. M., 876  
TUEVA, O. F., 94  
TURBIN, N. V., 660  
TUREKAJA, R. H., 539  
TURICA, A., 383  
TURNBULL, J., 3001  
TURNER, A., 113  
TURNER, N., 755  
TURNER, P. E., 1096  
TYAGI, B. P., 510v  
UGANDA DEPARTMENT OF AGRICULTURE, 1241  
ULRICH, R., 225  
UNDERWOOD, J. C., 990  
UNIVERSITY LIBRARY, CAMBRIDGE, 1244d  
UOTA, M., 204  
U.S.A., WESTERN REGIONAL PEACH MARKETING PROJECT, 234t  
U.S. DEPARTMENT OF AGRICULTURE, 109v, 688p  
U.S. DEPARTMENT OF AGRICULTURE, BUREAU OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY, 820  
U.S. DEPARTMENT OF AGRICULTURE, BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE, 640, 687g, 927d  
U.S. DEPARTMENT OF AGRICULTURE, DIVISION OF FRUIT INSECT INVESTIGATIONS, 365  
VALLANCE, L. G., 495, 1123  
(VANDERWALLE, (R.)), 631  
VAN DOREN, A., 218, 232  
VARMA, H. P., 1129  
VARMA, S. C., 1158  
VARTAPETJAN, S. M., 696  
VASCONCELLOS, P. W. C., 1186  
VÄXTSKYDDSANSTALT, STOCKHOLM, 737, 742  
VEIHMEYER, F. J., 181, 184  
VELAZQUEZ B., R., 1028  
VENKATARATNAM, L., 651  
VERMA, G. S., 1077  
VERNER, L., 199  
VICKERY, H. B., 795f  
VIENNA, BUNDESANST F. PFLANZENBAU U. SAMENPRÜFUNG, 1242  
VITES, L. S., 275  
VOGEL, F., 1208  
VOLKOV, I. A., 773



- VOLKOV, S. A., 137  
 VOLZ, E. C., 897  
 VORONKOVA, V. JA., 86  
 WADE, G. C., 339, 713  
 WADLEY, B. N., 333, 336  
 WAGENINGEN, DIRECTIE VAN DE  
   LANDBOUW, 431j  
 WAGENINGEN, INSTITUTE FOR THE  
   STORAGE AND PROCESSING OF  
   HORTICULTURAL PRODUCE,  
   224  
 WAGENINGEN, INSTITUUT VOOR  
   TUINBOUWTECHNIEK, 1226  
 WAGENINGEN, PLANTENZIEKTEN-  
   KUNDIGE DIENST, 305  
 WAHL, I., 607  
 WAHLIN, B., 448  
 WAIN, R. L., 209  
 WAKEFIELD, E. M., 1209  
 WALKER, J. C., 547, 723  
 WALKER, K. C., 420  
 WALKER, M. N., 567  
 WALKER, R. E., 1029  
 WALLACE, T., 87  
 WALLIN, V. R., 571  
 WALTER, J. M., 675, 688q  
 WALTHER, R., 554  
 WANDER, I. W., 958  
 WANG, S. C., 1115, 1128, 1156,  
   1187u  
 WANN, F. B., 310  
 WARE, L. M., 522, 639  
 WARMKE, G. L., 71  
 WARMKE, H. E., 71  
 WARREN, G. F., 482, 583  
 WARREN, G. T., 1134  
 WASHINGTON STATE APPLE COM-  
   MISSION, 222  
 WASSERBURGER, H.-J., 386  
 WATANABE, H., 590  
 WATANABE, T., 680  
 WATARI, S., 927u  
 WATSON, A. J., 927v  
 WATSON, D. P., 849  
 WEATHERS, L. G., 337  
 WEAVER, L. O., 672  
 WEAVER, N., 171  
 WEBER, G. F., 567  
 WEBSTER, C. C., 1005  
 WEED CLASSIFICATION COMMIT-  
   TEE, CANADA, 460  
 WEIER, T. E., 1204  
 WEINBERGER, J., 488  
 WEINDLING, R., 399  
 WEINHAUSEN, K., 1207  
 WEIR, T. S., 318  
 WEISE, R., 15  
 WELLHAUSEN, L. J., 578  
 WELLINGTON, R., 234s  
 WENHARDT, A., 450  
 WENZL, H., 246, 302, 407, 927h  
 WERNER, H. O., 762, 768r  
 WEST, C., 229  
 WEST, O., 1182  
 WESTER, R. E., 688r  
 WESTERN REGIONAL PEACH MAR-  
   KETING PROJECT, UTAH,  
   U.S.A., 234t  
 WESTERN REGIONAL RESEARCH  
   LABORATORY, ALBANY, CALI-  
   FORNIA, 300m  
 DE WET, A. F., 120  
 WHEELER, E. H., 366  
 WHITE, C. W., 510x  
 WHITE, D. G., 194, 247  
 WHITE, F. H., 301  
 WHITE, W. H., 679  
 WIEDE, W., 526  
 WIESMANN, R., 369, 370, 431r  
 WIGGINS, L. F., 1130, 1169  
 WILCOX, A. N., 300b  
 WILCOX, J. C., 9, 183  
 WILHELM, S., 357, 678  
 WILLIAMS, C. H. B., 1144  
 WILLIAMS, H. E., 331  
 WILLIAMS, K. T., 21, 23  
 WILLIAMS, R. O., 927w  
 WILLIS, S. J., 465, 510y  
 WILLSON, A. E., 955  
 WILMOT, R. J., 907  
 WILSON, E. E., 431s  
 WILSON, E. H., 478  
 WILSON, G. B., 109a  
 WILSON, J., 927x  
 WILSON, W. F., 491  
 WINTER, G., 688s  
 WITTWER, S. H., 667  
 WITZEL, S. A., 217  
 WOLCOTT, G. N., 1167, 1187v  
 WOLFE, H. R., 431t  
 WOLFENBARGER, D. O., 933  
 WOOD, H. E., 461  
 WOODBRIDGE, C. G., 312  
 WORK, P., 688t  
 WRIGHT, A. H., 947  
 WRIGHT, J. A., 897  
 WRIGHT, J. E., 109w  
 WURCELDORF-WARDEN, J. E., 869  
 WURGLER, W., 668  
 WYATT, O. E. P., 884  
 WYCKOFF, R. W. G., 786  
 WYLLIE, W. D., 558  
 WYND, F. L., 99  
 XABREGAS, J. L., 833, 1187a  
 YAMAMOTO, W., 1011g  
 YAMANE, G., 43  
 YARWOOD, C. E., 816  
 YASHIRODA, K., 927y  
 YATES, F., 8  
 YEOMANS, A. H., 422  
 YEPES, E., 690  
 YONEYAMA, K., 182  
 YOUNG, D. W., 508  
 YOUNG, H. C., 372  
 YOUNG, T. W., 952, 953  
 YOUNKIN, S. G., 584  
 YUAN, T. L., 1128  
 YUEN, Q. H., 501  
 ZAHAROVA, E. I., 285  
 ZAUMEYER, W. J., 592, 593  
 ZDANOVA, L. P., 46, 50, 109x  
 (ZELLER, A.), 1213  
 ZELLER, S. M., 334  
 ZIEGLER, H., 44  
 ZORIN, F. M., 937  
 ZUBKUS, L. P., 582  
 ZUCKERMAN, A., 836e





# INDEX

H.A. Vol. 21. No. 2.

N.B.—Brackets round the name denote that this person, although not necessarily the author, was directly or indirectly concerned with the article.

- AARON, I., 1353  
 (ABBISS, H. W.), 2159  
 ABOU RAYA, M. A., 1283  
 ACERETE, A., 2112  
 ACOCK, A. M., 2139  
 ADAMS, A. F. R., 1674  
 AFRICAN EXPLOSIVES AND CHEMICAL INDUSTRIES, 2140  
 AGARWALA, S. C., 1611  
 AGLIANY, J., 1950a  
 (AGRICULTURAL RESEARCH INSTITUTE, PRETORIA), 2152  
 AITKENHEAD, P., 1905  
 AKSU, S., 1813  
 AKUNE, S., 1712  
 ALBAN, E. K., 1584, 1603a  
 ALBERTS, H. W., 1722  
 ALCALDE LASSALLE, A. J., 1456  
 ALDRICH, D. G., 1967  
 ALEKSANDROV, F. A., 1890  
 ALEXANDER, D. McE., 1702  
 ALTONA, R. E., 1949  
 ALVIAR, M. A., 1725b  
 AMERICAN CHEMICAL SOCIETY, 2189  
 AMERICAN FRUIT GROWER, 1514  
 AMERICAN RAMIE COMPANY, 1870a  
 AMSTERDAM, ROYAL INSTITUTE FOR THE INDIES, 2141  
 ANDERSON, C. G., 1479  
 ANDERSSSEN, F. G., 2142  
 ANON., 1279, 1319, 1321, 1322, 1326, 1345, 1511, 1557, 1725a, 1923, 1935, 1958, 2009, 2075, 2111a  
 ANSCOMBE, F. J., 1789a  
 AOKI, K., 1471  
 APPLE, J. W., 1688  
 ARCHIOVSKAJA, E. V., 1996  
 ARGIKAR, G. P., 1856  
 ARIKADO, H., 2081  
 ARNOLD, G., 1512  
 ARNOLD, G. H., 2062  
 ARSAN, E., 1793  
 ASAI, T., 1248  
 ASHBY, D. G., 1812  
 ASHBY, E., 1265  
 ATHAWALE, C. R., 1863  
 ATKINS, F. C., 1663  
 (ATKINSON, F. E.), 2158  
 ATKINSON, H. J., 1742  
 AUBERT, P., 1394  
 AUBIN, L., 1341  
 AUTUORI, M., 2111b  
 BAAS BECKING, L. G. M., 2062  
 BACCIALONE, J., 1922  
 BADMIN, S. R., 2116  
 BAERECKE, M.-L., 1733  
 BAGENAL, N. B., 2113  
 BAILEY, F. L., 1312  
 BAILEY, J. S., 1401  
 BAIRD, E. W., 2093  
 BAKER, K. F., 1900  
 BAKER, M. S., 2083  
 BAKKE, A. L., 1564  
 BALDACCIO, E., 1477  
 BALDINI, E., 1694  
 BALDWIN, M. M., 1516  
 BANIF, A., 1959  
 BANTA, E. S., 1320  
 BANZON, J., 2036  
 BARBER, L. A., 1826  
 BARLOW, H. W. B., 1293  
 BARNES, D. F., 2001  
 BARRON, E. S. G., 1754  
 BARTELS, R., 1763  
 BARTRAM, R. D., 1358  
 BASHFORD, L. A., 1864  
 BASS, L. W., 1521  
 BATCHELOR, L. D., 1960  
 BATES, J. C., 1552  
 BATJER, L. P., 1390  
 BAUMANN, H., 1741  
 BAWDEN, F. C., 1801, 1802  
 BAZZIGHIER, G., 1920  
 BEAL, J. M., 1298  
 BEAMISH, J. E., 1331a  
 BEAN, W. J., 2114  
 BEATTY, R. H., 1601  
 BEAUCHAMP, C. E., 2087  
 BEAUMONT, A., 1888, 1897, 1912  
 BEDBROOK, C., 1950b  
 VAN BEERS, W. F. J., 2017  
 BELL, F. W., 1743  
 BELL, H. P., 1403  
 BELL, L., 1512  
 BELS-KONING, H. C., 1667  
 BENDER, E. K., 1603b  
 BENNETT, H., 1798, 1817, 1854  
 BENTLEY, J. A., 1331b  
 BENVENIGNI, L., 1425  
 BERGER, K. C., 1306  
 BERKELEY, G. H., 1453, 1800  
 VON BERNUTH (FRAU), 1757  
 BERRY, P. A., 1616  
 BEVENUE, A., 1725r  
 BEWLEY, W. F., 1884  
 BIERI, F., 1527  
 BIERNAN, H. A., 1553  
 BINKLEY, A. M., 1745  
 BITTERS, W. P., 1960  
 BITTNER, C. S., 1434a  
 BLACK, W., 1726  
 BLACK, W. A. P., 1331c  
 BLACKIE, W. J., 2004  
 BLACKITH, R. E., 1540a  
 BLAIR, D. S., 1400  
 (BLAIR, D. S.), 1408, 1434b, 1434c  
 BLANCHARD, F. A., 1310  
 BLISS, D. E., 1999  
 VAN BLOMMESTEIN, J. A., 1701  
 BLUME, J. M., 1302  
 BLUMER, S., 1464  
 BLUVŠTEIN, I. N., 1442  
 BOBACK, A. W., 1780  
 BOCKMANN, H., 1651  
 BODE, O., 1739  
 BOHART, G. E., 1329  
 BÖMEKE, H., 1448, 1540b  
 BOMHARD, M. L., 1998  
 BOND, G., 1315  
 BORDELEAU, R., 1790  
 BORGSTRÖM, G., 1399a, 2143  
 BORSANI, L. F., 1508  
 BORTHWICK, H. A., 1915  
 BOSSARD, R., 1874  
 BOTANY SECTION, QUEENSLAND, 1573  
 BÓTTARI, V., 1375  
 BOUCHER, J., 1685  
 BOUGARD, M., 1380  
 BOULD, C., 1301, 1381  
 BOWEN, C. V., 1536  
 BOWMAN, F. T., 1399b  
 BOX, G. E. P., 1331d  
 BOYNTON, D., 1354, 1444  
 BRADFORD, B., 1949  
 BRAMBLE, W. C., 1563  
 BRANNAMAN, B. L., 1970  
 BRAUN, A. C., 1932  
 BRAUN, R., 1920  
 BREGMAN, A., 1838  
 BRENNAN, E. G., 1706  
 BREVIGLIERI, N., 1349, 2115  
 BREŽNEV, D. D., 1696  
 BRIEGER, F. G., 1252  
 BRINDLEY, T. A., 1646  
 BRITISH COMMONWEALTH SCIENTIFIC OFFICIAL CONFERENCE, 2144  
 BRITISH GUIANA DEPARTMENT OF AGRICULTURE, 2146  
 BRITISH GUIANA DIRECTOR OF AGRICULTURE, 2145  
 BROADBENT, D., 1261  
 BROADBENT, L., 1756, 1759, 1760  
 BROCK, R. D., 1713  
 BROOKE, J., 1338  
 BROOKS, R. M., 1399c  
 BROTH, R., 1399d  
 BROWN, D. D., 2147  
 BROWN, E., 1827, 1828, 1830  
 BROWN, R., 1261  
 BRUNER, H. E., 1558, 1582  
 BUCHHOLTZ, K. P., 1331e, 1587

- BUDAGOVSKIĭ, V. I., 1365  
 BULLIS, D. E., 1848  
 BUREAU OF ENTOMOLOGY AND  
 PLANT QUARANTINE, U.S.  
 DEPARTMENT OF AGRICUL-  
 TURE, 1540c  
 BURCHARDT, A., 2018  
 BUSTRILLOS, A. D., 2036  
 BUTTRESS, F. A., 2193a  
 BUZIN, N. P., 1422
- CABRERA, A. L., 1823  
 ÇAİLAHAN, M. H., 1955  
 CALL, J., 2046  
 CALLBECK, L. C., 1766  
 CALMA, V. C., 2077  
 CAMERON, E., 1618  
 CANADA DEPARTMENT OF AGRI-  
 CULTURE, DIVISION OF BAC-  
 TERIOLOGY AND DAIRY  
 RESEARCH, SCIENCE SERVICE,  
 2158  
 CANADA DEPARTMENT OF AGRI-  
 CULTURE, FRUIT AND VEGE-  
 TABLE PRODUCTS RESEARCH  
 COMMITTEE, 2158  
 CANADA, MINISTER OF AGRICUL-  
 TURE, 2148  
 CANTERBURY AGRICULTURAL  
 COLLEGE, N.Z., 2193b  
 CAPINPIN, J. M., 1725b  
 CARDEÑOSA B., R., 2013, 2014,  
 2015  
 CARLSON, R. F., 1603c, 1603d  
 CARNE, W. M., 1440  
 CARTER, A. R., 1889  
 CARVALHO, A., 2039, 2040  
 CENTRAL EXPERIMENTAL FARM,  
 FRUIT AND VEGETABLE PRO-  
 ducts RESEARCH COMMITTEE,  
 DIVISION OF CHEMISTRY,  
 OTTAWA, 2158  
 CENTRAL EXPERIMENTAL FARM,  
 LOW TEMPERATURE INVESTI-  
 GATIONS, STORAGE LABORA-  
 TORY, DIVISION OF HORTI-  
 CULTURE, OTTAWA, 2158  
 CHAKRAVARTI, K. K., 1819  
 CHAN, A. P., 1882  
 CHAPUIS, G., 1666  
 CHATTERJEE, R., 1870b  
 CHAUDHURI, R. P., 1647, 1760  
 CHAUGULE, B. A., 1576  
 CHEESMAN, E. E., 2111c  
 CHITTENDEN, A. E., 1835  
 CHITTENDEN, D. B., 1603e  
 CHRISTIANSEN, G. S., 1292  
 CLAASSEN, C. E., 1857, 1858  
 CLARK, F. E., 1247  
 CLARKE, W. S., Jr., 1353, 1428  
 CLAYTON, C. N., 1540u  
 CLENNENING, K. A., 1277  
 COETZEE, W. H. K., 1337  
 COLE, C. E., 1586  
 COLLING, R. H., 2111d  
 COLVIN, B., 2116  
 COMMONWEALTH ECONOMIC COM-  
 MITTEE, 2149  
 COMMONWEALTH MYCOLOGICAL  
 INSTITUTE, 1459  
 COMMONWEALTH SCIENTIFIC AND  
 INDUSTRIAL RESEARCH ORG-  
 ANIZATION, AUSTRALIA, *see*  
 C.S.I.R.O., AUSTRALIA
- COMPLIN, J. O., 1990  
 CONDADO, C., 1977  
 COOK, R. L., 1305  
 COOMBE, B. G., 1421  
 COOMBER, H. E., 1798, 1817,  
 1835, 1841, 1844, 1855  
 COOMBS, T. J., 1830, 1841, 1844  
 COONY, J. J., 1967  
 CO-OPERATIVE RESEARCH AND  
 SERVICE DIVISION, FARM  
 CREDIT ADMINISTRATION,  
 U.S. DEPARTMENT OF AGRI-  
 CULTURE, 1995  
 CORNMANN, J. F., 1603f  
 CORNU, T., 1416  
 CORTVRIENDT, S. F., 1872  
 COSMO, I., 1413  
 COULTER, L. L., 1603f  
 COUTIEU, P., 1666  
 CRAFTS, A. S., 1541  
 CRICHTON, M. I., 1894  
 CROSS, F. B., 1434d  
 CRUICKSHANK, I. A. M., 1652  
 CRUZADO, H. J., 2088  
 C.S.I.R.O., AUSTRALIA, 2150  
 ČUDINOVA, A. N., 1659  
 CUMINGS, G. A., 1331f  
 CUNNINGHAM, C. E., 1789e  
 CURTIS, L. E., 1550  
 CUTKOMP, L. K., 1725c  
 CVETKOVA, I. V., 1331i
- DAINES, R. H., 1706  
 DANIELSON, L. L., 1500  
 DANISH, A. A., 1540d  
 DANSK GARTNERFORENING, 2151  
 DANTAS, B., 2027  
 (DANVIG, A. M.), 2151  
 DARROW, G. M., 1402  
 DAVEL, H. B., 2152  
 DAVIES, A. J., 1727  
 DAVIES, R. G., 1497  
 DAVIS, E. A., 1271  
 DAVIS, G. E., 1603g  
 DAVIS, J. F., 1630  
 DAVIS, L. D., 1355  
 DAVIS, L. H., 1900  
 DAVIS, M. B., 1400  
 (DAVIS, M. B.), 1408  
 DAVIS, T. A., 2033  
 DEAN, L. A., 1750  
 DEARBORN, C. H., 1588, 1592  
 DECKER, G. C., 1688  
 DEFRAANCE, J. A., 1603h  
 "DE LANGE OSSEKAMPEN", 2165  
 DESHUSSES, L.-A., 1324  
 DEVINE, E. S., 1679  
 DHILLON, A. S., 1288  
 DICK, J., 2091  
 DILATUSH, T. J., 1950c  
 DILLER, V. M., 1310  
 VAN DILLEWIJN, C., 2082  
 DIMITRI, M. J., 1937  
 DIMOCK, A. W., 1900  
 DIRSH, V. M., 1860  
 DIVISION OF BACTERIOLOGY AND  
 DAIRY RESEARCH, SCIENCE  
 SERVICE, DEPARTMENT OF  
 AGRICULTURE, CANADA, 2158  
 DIVISION OF CHEMISTRY, CENTRAL  
 EXPERIMENTAL FARM, FRUIT  
 AND VEGETABLE PRODUCTS  
 RESEARCH COMMITTEE,  
 OTTAWA, 2158
- DIVISION OF HORTICULTURE, CENTRAL  
 EXPERIMENTAL FARM,  
 LOW TEMPERATURE INVESTI-  
 GATIONS, STORAGE LABORA-  
 TORY, OTTAWA, 2158  
 DOERY, A. C., 1586  
 DOESBURG, J. J., 1723  
 DOMAN, N. G., 1278  
 DOMATO, J., 1993  
 DOWSON, W. J., 1787  
 DRIGGERS, B. F., 1489  
 DU CHANNOIS, F. R., 1502  
 DUCHARME, E. P., 1985  
 DUHANIN, K. S., 1335  
 DUMONTHAY, J., 1725d  
 DUNTON, E. M., Jr., 1743  
 DUTTON, W. C., 1545, 1574  
 DYER, R. A., 2153  
 DZAPARIDZE, L. I., 1846
- EAST AFRICA HIGH COMMISSION,  
 2154  
 EASTMAN, R. H., 1870c  
 EATON, J. K., 1497  
 (EAVES, C. A.), 2158  
 EDINBURGH SCHOOL OF AGRICUL-  
 TURE, 1331g  
 EDMUNDSON, W. C., 1730  
 EDWARDS, F. I., Jr., 1536, 1717  
 EDWARDS, G. R., 1653, 1654,  
 1736, 1774  
 EDWARDS, R. L., 2190  
 EKDAHL, W. G., 1858  
 ELGORT, S. G., 1973  
 ELLIOTT, M., 1540e  
 ELLIS, T. O., 1746, 1964  
 ELLISON, J. H., 1590  
 EMILSSON, B., 1737, 1738, 1767  
 ENDÔ, Y., 1454  
 ENGEL, R. E., 1603i  
 ENNIS, W. B., Jr., 1328, 1544  
 ERICKSON, L. C., 1970  
 ESAJAN, G. S., 1698  
 EUNUS, A. M., 1913  
 EVERETT, P., 1992  
 EVERIST, S. L., 1603j
- FAHEY, H. N., 1957  
 FAHEY, J. E., 1534  
 FAHN, A., 1376  
 FAIRING, J. D., 1540f  
 FANCHER, L. W., 1529  
 FARMER, R., 1880  
 FASSULIOTIS, G., 1772  
 FAULKNER, R. P., 2117  
 FEINSTEIN, L., 1799  
 FELDMESSER, J., 1772  
 FENNAH, R. G., 2011  
 FENTON, F., 1951  
 FERNANDEZ, G. B., 1815e  
 FERNANDEZ-CALDAS, E., 1331j  
 FERNÁNDEZ-VALIELA, M. V., 1974  
 FIDLER, J. C., 1719  
 FIEDLER, O. G. H., 2051  
 FILHO, H. A., 2041, 2111e, 2111f  
 FILLMORE, R. H., 1927  
 FOLLEY, R. R. W., 2118  
 FOOD AND AGRICULTURE ORGANI-  
 ZATION OF THE UNITED  
 NATIONS, WASHINGTON,  
 2155, 2156  
 FORESTRY COMMISSION, 1470



FORT VERMILION . DOMINION  
EXPERIMENTAL SUBSTATION,  
2157

FOX WILSON, G., 2119  
FRAHM-LELIVELD, J. A., 1295  
FRANCO, C. M., 2050  
FRANKLIN, H. J., 1401  
FRANSSEN, C. J. H., 2057  
FRASER, G. K., 1950d  
FRASER, L., 1980  
FREDRIKSSON, L., 1748  
FREED, V. H., 1553  
FRENCH, B. O., 1339  
FREY, W., 1629  
FRIED, J., 1824  
FRITH, H. J., 1969  
FRITZSCHE, R., 1438  
FRUIT AND VEGETABLE PRODUCTS  
LABORATORY, KENTVILLE,  
N.S., 2158  
FRUIT AND VEGETABLE PRODUCTS  
LABORATORY, MORDEN, 2158  
FRUIT AND VEGETABLE PRODUCTS  
LABORATORY, SUMMERLAND,  
B.C., 2158  
FRUIT AND VEGETABLE PRODUCTS  
RESEARCH COMMITTEE, DE-  
PARTMENT OF AGRICULTURE,  
CANADA, 2158  
FRUIT AND VEGETABLE PRODUCTS  
RESEARCH COMMITTEE, DIVI-  
SION OF CHEMISTRY, CENTRAL  
EXPERIMENTAL FARM, 2158  
FUJIMOTO, G., 2008  
FUJITA, T., 1331h  
FULTS, J. L., 1752

GADD, C. H., 2120  
GAIGNAUX, D., 2064  
GAISER, L. O., 1950e  
GALLAY, R., 1485  
GALSTON, A. W., 1268  
GAMBRELL, F. L., 1481, 1928  
GARDNER, L. R., 1531  
GARDNER, R., 1745  
GARESE, P., 2110  
GARMAN, P., 1488  
GARNETT, C. B., 2111g  
GÄUMANN, E., 1920  
GAYFORD, G. W., 1360, 1399e  
GEIER, P., 1498, 1507  
GENKELJ, P. A., 1331i  
GEORGE, J., 2108  
GERSDORFF, W. A., 1850  
GERTSCH, M. E., 1599  
GHISLENI, P. L., 1622  
GIFFEN, R. N., 1608  
GILBERT, F. A., 1595  
GILBERT, J. C., 1919  
GILES, J. E., 1702  
GILL, D. L., 1931  
GILLILAND, H. B., 1944  
GILLIS, J., 1331j  
GIORDANO, B., 1953  
GLASS, E. H., 1540g  
G[LOVER], P. M., 2111h  
GODFREY, G. H., 1636  
GOFFART, H., 1773  
GOIDANICH, G., 1435, 1725e  
GOLDSMITH, E. P., 1945  
GOLLMICK, F., 1466  
GOLUBINSKI, I. N., 1372  
GONDO, A., 2079  
GONZÁLEZ LUGO, E., 1916

VAN DE GOOR, G. A. W., 1598  
GORODSKAJA, O. S., 1815a  
GOULD, C. J., 1896, 1903  
GOULD, P. H., 1336  
GOULD, W. A., 1784  
GOURLAY, W. B., 1926  
GOVEN, M., 1789e  
GOVINDAN, P. R., 1707  
GOVINDU, H. C., 1929  
GRAEL, I., 1950f  
GRANOVSKY, A. A., 1782, 1783  
GRANT, V., 1377  
GRAU, F. V., 1603k  
GRAVES, G., 1934  
GREGORY, F. G., 1260  
GREGORY, P. H., 1756  
GREULACH, V. A., 1677  
GRIFFITHS, D. G., 1398  
GRIGGS, W. H., 1373  
GRIGSBY, B. H., 1543, 1575  
GRIOT, M., 1504  
GRISON, P., 1436  
GUHA, M. P., 1870b  
GUHA, P. C., 1870h  
GUKASJIAN, A. S., 1447  
GULVAL EXPERIMENTAL STATION,  
2159  
GÜNTERT, E., 1526  
GUPTA, B. D., 2092  
GUSEVA, A. R., 1839  
GUSTAFSSON, N., 1738, 1767  
GUTHRIE, F. E., 1540h

HACKETT, D. P., 1291  
HADIWIDJAJA, T., 1877  
HAGAN, R. M., 1703  
HAGEMAN, R. H., 1533, 1870d  
HAGEN, C. E., 1302  
THE HAGUE, RIJKSTUINBOUW-  
VOORLICHTINGSDIENST, 2180  
HALL, M. D., 1826  
HALL, S. A., 1540i  
HALL, T. D., 1947, 1948  
HALLEMANS, A., 1595  
HALLER, H. L., 1540j  
HAMAGUTI, N., 1845  
HAMILTON, A., 1496  
HAMNER, C. L., 1603d  
HANAY, T. G., 1810  
HANNA, A. D., 1492  
HARADA, M., 1868, 1869  
HARDY, J., 2121  
HARLER, C. R., 2111i  
HARLEY, J. L., 1331k  
(HARPER, G. S.), 2158  
HARPER, J. L., 2012  
HARRIS, H., 1427  
HARRIS, R. W., 1354  
HARRIS, T. H., 1540k  
HARRIS, W. B., 1392  
H[ARRISON], C. J., 1865  
HARTZELL, A., 1535  
HARVARD UNIVERSITY (BOSTON),  
2193c  
HARVEY, W. A., 1541  
HASE, A., 1658  
HASKELL, G., 1687, 2122  
HASLAM, R. J., 1791  
HASLETT, E., 1728  
HATT, P., 1324  
HAUSER, E., 1665, 1668, 1669  
HAWKER, L. E., 2123  
HAWKES, A. D., 1917, 1918  
HAWORTH, F., 2100, 2101

HAXO, F., 1661  
HAYASHI, K., 1950g, 1950h  
HAYNE, D. W., 1510  
HAYTER, C. W., 2159  
HAYWARD, H. E., 1304  
HEAL, R. E., 1849  
HEATH, O. V. S., 1266, 1672  
HECK, W. W., 1312  
HEINZE, K., 1776  
HENDRICKS, R. H., 1304  
HENDRICKSON, A. H., 1433  
HENRIET, J., 1870e  
HENRY, A. J., 1870f  
HENSILL, G. S., 1531  
HEROUT, V., 1870g  
HERR, F., 1383  
HEWITT, E. J., 1313, 1611  
HEY, G. L., 1670  
HIBON, E., 1833  
HILL, H., 1386  
HILLEMANN, H., 1628  
HILLS, G. R., 1308  
HILTON, R. J., 1608  
HINMAN, F. G., 1646  
HINO, I., 1950i  
HIRANE, S., 1822  
HIRATSUKA, N., 1472  
HIRAYAMA, S., 1805  
HITCHCOCK, A. E., 1603 1  
HITCHINS, P. E. N., 1725f  
HOARE, E. R., 1318, 1679  
HOBBS, J. C., 2006  
HOCKETT, R. C., 2076  
HOFFMANN, E., 1526  
HOFMASTER, R. N., 1500  
HOLDAWAY, F. G., 1725c  
VAN HOLDER, J., 1872  
HOLDSWORTH, M., 1672  
HOLLEY, W. D., 1880  
HOOKER, W. J., 1768  
(HOPE, G. W.), 2158  
HOPKINS, E. F., 1997  
HOPKINS, J. C. F., 1460, 2161  
HORNBOSTEL, W., 1457  
(HORNE, F. R.), 2171  
HOSKINS, W. M., 1532  
HOSTE, J., 1331j  
HOTTA, T., 1348  
HOWARD, J., 1387  
HOWE, W. L., 1639, 1640  
HOWES, F. N., 1837  
HUGO, J. F. DU T., 1337  
HUMPHRIES, E. C., 1311  
HUNTER, A. S., 1788  
HURCOMBE, R. E., 1941, 1942  
  
ICART, A., 1504  
IGNATIEFF, V. (Editor), 2124  
IMAMURA, S., 1267, 2080  
INGHAM, G., 1254  
INOUE, Y., 1950i  
I.R.S.I.A., BRUSSELS, 2162  
ISLIP, H. T., 1828, 1830, 1840,  
1844  
IWATA, Y., 1637  
  
JACKSON, R. L. O., 2125  
JACOB, W. C., 1590, 1750  
JACOBONI, N., 1369  
JACOBS, K., 2163  
JAMAICA DEPARTMENT OF AGRICULTURE, 2164  
JAMES, D. T., 1328  
JANNONE, G., 1484

- JEPPSON, L. R., 1990  
 JESSER, M. J., 1990  
 JEX, W. F. C., 2086  
 JOHNSON, C. G., 1655  
 JOHNSON, M., 1343  
 JOLLY, A. L., 2019  
 (JONES, A. H.), 2158  
 JONES, D. R., 1787  
 JONES, E. W., 1611  
 JONES, H. A., 1521  
 JONES, R. J., 1246  
 JONES, W. W., 1965  
 DE JONG, J. R., 1540 1  
 JÖRGENSEN, H., 2018  
 JUGANOVA, O. N., 1476  
 JUNE, R. I., 1396, 1474
- KAINDL, K., 1286  
 KAKUKAWA, T., 1331 1  
 KAMMERMANN, N., 1734  
 KANDLER, O., 1331m  
 KAPICA, L., 1760  
 KARASAWA, K., 1898, 1899, 1950j  
 KASAHARA, Y., 1603n  
 KASERER, H., 1609  
 KASJANENKO, A. I., 1361  
 KASSANIS, B., 1762, 1801, 1802  
 KAWAHARA, U., 1692  
 KAWAMURA, E., 1711  
 KELAREV, M. P., 1419  
 KELENY, G. P., 1808  
 KELLER, K. R., 1848  
 KELLEY, A. P., 2126  
 KEMMER, E., 1332  
 KENDRICK, J. B., Jr., 1613  
 KENT, G. C., 1768  
 KENTVILLE, N.S. FRUIT AND  
 VEGETABLE PRODUCTS LAB-  
 ORATORY, 2158  
 KENTVILLE, N.S. STORAGE INVES-  
 TIGATIONS, 2158  
 KERTESZ, Z. I., 1708  
 KESSLER, H., 1397  
 KEYWORTH, W. G., 1716  
 KIBE, M. M., 1316  
 KIDO, G. S., 1513  
 KIDSON, E. B., 1705  
 KIHARA, H., 2080  
 KIMURA, K., 1660  
 KINCAID, R. R., 1809  
 KING, H., 1870f  
 KING, L. J., 1551  
 KING, N. J., 2084, 2111j  
 KIRBY, A. H. M., 1524  
 KIRBY, R. S., 1950 1  
 KIRKPATRICK, H., Jr., 1603 1  
 KIRKPATRICK, H. C., 1449  
 KITAGAWA, M., 1712  
 KIZJURIN, A. D., 1443  
 KLEIN-KRAUTHHEIM, F., 1778  
 KLEŠNIN, A., 1272  
 KLINGMAN, G. C., 1603m  
 KLINKOWSKI, M., 1686  
 KLUČAREVA, M. V., 1709  
 KLOTZMEYER, E. C., 1689  
 KLOTZ, L. J., 1981, 2003a  
 KNOWLES, G., 1562, 1570  
 KOCH, E. J., 1250  
 KOCH, L. W., 1800, 1904  
 KOELLE, G., 1777  
 KOENIG, P., 1777  
 KOFRANEK, A. M., 1901  
 KÖHLER, E., 1758, 1803  
 KOJIMA, H., 1262
- KOLESNIK, L. V., 1417  
 KOLIŠČUK, L. K., 1634  
 KONCZEWSKI, C., 1384  
 KONDO, I. N., 1423  
 KONDO, M., 1603n, 1603o  
 KONINGLIJKE VEREENIGING  
 INDISCH INSTITUUT, AMSTER-  
 DAM, 2141  
 KORDON, R. JA., 1366  
 KORVEN, H. C., 1607  
 KOSKI, V. M., 1270  
 KRAEVOI, I. M., 1327  
 KRAPOVICKAS, A., 1936  
 KRISHNAMURTHY, R. S., 1863  
 KRISHNA MURTI, C. R., 2063  
 KRISHNA RAO, G. S., 1870h  
 KROMPHARDT, H., 1680  
 KRUG, C. A., 2039, 2040  
 KRUŽILIN, A. S., 1699  
 KULASH, W. M., 1690  
 KUNDERT, J., 1527  
 KUNDU, B. C., 1870i  
 KUNGL. LANTBRUKSAKADEMIEN,  
 SWEDEN, 2193d  
 KUNKEL, R., 1745  
 KURSANOV, A., 2111k  
 KUSHNIR, T., 1909
- LACHMAN, W. H., 1593  
 LADARIJA, Z. N., 1973  
 LAL, G., 2003d  
 LAMB, J., 2102, 2106, 2111 1  
 LANGENBUCH, R., 1781  
 LARSON, A. H., 1559  
 LASHBROOK, R. V., 1804  
 LAURIE, A., 2127  
 LAUSANNE HORTICULTURAL RE-  
 SEARCH STATION, 2166  
 LAWALRÉE, A., 2128  
 LAWRENCE, W. J. C., 2129  
 LAYCOCK, D. H., 2096  
 LEATHERDALE, D., 1499  
 LeCOMPTE, S. B., Jr., 1585  
 LEE, F. A., 1407  
 LEEPER, H. M., 2111q  
 LEES, A. D., 1540m  
 VAN LEEUWEN, E. R., 1486  
 LEONARD, C. D., 1303  
 LEONE, I. A., 1706  
 LEUTY, J. D., 1963  
 LEVINE, M., 1263  
 LIDOV, R. E., 1540d, 1540n  
 LINDER, P. J., 1299, 1300  
 LINDGREN, D. L., 2000  
 LINDNER, R. C., 1449  
 LINSER, H., 1285  
 LIVINGSTON, G. A., 1971  
 LIYANAGE, D. V., 2034  
 LOBANOV, G. A., 1374  
 LOEST, F. C., 1978  
 LOEWEL, E. L., 1382, 1393, 1395  
 LOHMAN, M. L., 1919  
 LOIDINA, G. I., 1806  
 LOMBARD, P. M., 1764  
 LONA, F., 1276  
 LOOMIS, W. E., 1547, 1548  
 LOOS, C. A., 2098, 2104  
 LORD, K. A., 1518  
 LORENZ, O. A., 1740  
 LORING, H. S., 1804  
 LOUCKS, K. W., 1997  
 LOUSTALOT, A. J., 2088  
 LOUW, A. J., 1463
- LOW TEMPERATURE INVESTIGA-  
 TIONS, STORAGE LABORATORY,  
 DIVISION OF HORTICULTURE,  
 CENTRAL EXPERIMENTAL  
 FARM, OTTAWA, 2158  
 (LOWE, V. J.), 2157  
 LUCAS, E. H., 1288  
 LUCHINI, R., 1333  
 LUCIE-SMITH, M. N., 1952, 1956  
 LUGEON, A., 1429  
 LYND, J. Q., 1305  
 LYONS, T., 1718
- MCALPIN, D. M., 1586  
 MACAULAY INSTITUTE FOR SOIL  
 RESEARCH, ABERDEEN, 2167  
 McCABE, E. T., 1799  
 MCCLELLAN, W. D., 1902  
 MCCOLLOCH, R. J., 1708  
 MCCOMBS, L., 1603a  
 MACDANIELS, L. H., 1444  
 McDERMOTT, L. A., 1725n  
 MacDonald, W. P., 1556  
 McDONOUGH, E. S., 1512  
 McEvoy, E. T., 1797  
 MACHACEK, J. E., 1330  
 McILRATH, W. J., 1704  
 MACKIE, R. W., 1302  
 MCKINLAY, K. S., 1524  
 McLAUGHLIN, J. H., 2016  
 MacLEAN, J. A. R., 2023  
 McMARTIN, A., 1600  
 MacNEILL, B. H., 1715  
 McNEW, G. L., 1465  
 MAGEE, R. A., 1848  
 MAHMUD, K. A., 1842  
 MAILLET, A., 1322  
 MAINE AGRICULTURAL EXPERI-  
 MENT STATION, 2168  
 MAINLAND, G. B., 1919  
 MAKSIMOVA, M. P., 1342  
 MALAGUTI, G., 1859  
 MALAYA RUBBER RESEARCH IN-  
 STITUTE, 2169  
 MAMONTOVA, A. N., 1755  
 MANGAN, J. L., 1258  
 MANOHIN, P. A., 1415  
 MANSKE, R. H. F., 1870j  
 MARAIS, J. S., 2170  
 MARAIS, S. J. S., 1569  
 MARCHIONATTO, J. B., 1450  
 MARGOLIN, A. F., 1364  
 MARIMPIETRI, L., 1388  
 MARSHALL, E. R., 1589, 1591  
 MARTIN, R. P., 1296, 1297  
 MARTIN, W. J., 1714  
 MARTÍNEZ CROVETTO, R., 1871,  
 1893  
 MATHON, C. C., 1829  
 MATHOT, H. J., 1723  
 MATSUMOTO, T., 1815b, 1822  
 MATTHEWS, W. S. A., 1840  
 MAY, A. W. S., 1503  
 MAYER, E. L., 1525  
 MAYER, K., 1379  
 MAYÉRAS, R., 1344  
 MEADOWS, M. W., 1589, 1591  
 MEEK, W. E., 1603p  
 MEFFERT, M.-E., 1821  
 MEITH, H. C., 1961  
 MELANDER, L. W., 1602  
 MENDES, C. T., 2042  
 MENDES, H. C., 2050  
 MENDES, J. E. T., 2039, 2043, 2048



- MENDES, L. O. T., 2052  
 MENON, H. B., 2055  
 MERCHANT, C. H., 1786  
 MEREDITH, D., 1942, 1948  
 VAN DER MERWE, G., 1815c  
 MESSENGER, P. S., 1532  
 VAN DER MEULEN, J. G. J., 1597  
 MICHELBAEHER, A. E., 1483, 1638  
 MIDDLEBROOK, S., 1662  
 MIDDLEKAUFF, W. W., 1483, 1638  
 MIDDLETON, J. T., 1613, 1885  
 MIHAILOVA, P. V., 1795  
 MIHAILOVSKIĬ, V. S., 1469  
 MIHLIN, D. M., 1851  
 MIKOLAĬČUK, I. A., 1404  
 MILES, M., 1627  
 MILLER, L. W., 1540o  
 MILLER, R. E., 1522  
 MILNE-REDHEAD, E., 1331n  
 MILTHORPE, F. L., 1266  
 MINATTA, M. J., 1989, 1991  
 MINISTRY OF AGRICULTURE, LONDON, 1249, 1509, 1540p, 1540q, 1572, 1725g, 1725h, 1789b, 2176  
 MIRIMANJAN, V. A., 1972  
 MITCHELL, J. W., 1299, 1300  
 MITCHELL, P., 2007  
 MITLIN, N., 1850  
 MITROFANOV, P. I., 1495  
 MIYAWAKI, Y., 1660  
 MO, T. T., 2023  
 MODLIBOWSKA, I., 1410  
 MOERLICHE, V., 1540r  
 MOLDENKE, H. N., 1938  
 MOLOTOVSKIĬ, G. H., 1697  
 MONIN, A., 1399g  
 MOORE, R. H., 1290  
 MORDEN FRUIT AND VEGETABLE PRODUCTS LABORATORY, 2158  
 MORETII, A., 1351, 1424  
 MORETTINI, A., 1399h  
 MORGAN, S. R., 1718  
 MORIYA, A., 2078  
 MORROW, E. B., 1402  
 MOSER, F., 1528  
 MOŠKOV, B. S., 1273, 1274  
 MOSSOP, M. C., 2172  
 MOULTON, J. E., 1603c, 1603d  
 MOYANO, A., 1508  
 (MOYLS, A. W.), 2158  
 MULLER, C. J., 1605  
 MÜLLER-STOLL, W. R., 1478  
 MUMA, M. H., 1862  
 MUNGOMERY, R. W., 2090  
 MUNTANOLA, M., 1861  
 MURRAY, D. B., 2032  
 MURRAY, S. M., 1948  
 MUZIK, T. J., 2088  
 MYBURGH, A. C., 1491, 1494  
 MYHRE, A. S., 1362  
 NAKAMURA, M., 1832, 2003b  
 NARAYANA, N., 1316  
 NARAYANAMURTI, D., 2108  
 NASH-WORTHAM, J. R. H., 1719  
 NATIONAL RESEARCH COUNCIL OF CANADA, 2193e  
 NATIVIDADE, J. V., 2130  
 NAUDE, T. J., 2173  
 NAUNDORF, G., 2020, 2021, 2022, 2065  
 NEDERLANDSE ALGEMENE KEURINGSDIENST VOOR BOOMKWERKJEGEWASSEN (N.A.K.B.), 1399i  
 NEEDHAM, P. H., 1540e  
 NEKRASOVA, T. V., 1955  
 NEL, R. I., 2174  
 NEPOROŽNYĬ, G. D., 1350  
 NETO, P. C., 2047  
 NEVILLE, H. B., 1603q  
 NEWCOMER, E. J., 1540s  
 NEWHALL, A. G., 1325  
 NEWMAN, A. S., 1549  
 NEWTON, G. K., 2111m  
 NICHOLAS, D. J. D., 1256, 1301  
 NICHOLS, L. P., 1434a  
 NICKELL, L. G., 1287  
 NICKELS, C. B., 1487  
 NICOLINI, J. C., 1455  
 NIKOLSKAJA, M. N., 2003c  
 NILES, J. J., 1623  
 NILSSON, R., 1620  
 NISHIYAMA, I., 1681  
 NISIKADO, Y., 1660  
 NOGUTI, Y., 1606, 1682, 1815d  
 NOLL, C. J., 1580  
 NOLTE, H.-W., 1686  
 NORMAN, A. G., 1544, 1549, 2191  
 NORTH, C., 1604  
 NORTH-EAST WEED CONTROL CONFERENCE CO-ORDINATING COMMITTEE, 1542  
 NORTHERN NUT GROWERS' ASSOCIATION INC., 2175  
 NUTMAN, F. J., 2030  
 NUTTER, E. C., 1603r  
 NUTTONSON, M. Y., 2192  
 NYASALAND PROTECTORATE DEPARTMENT OF AGRICULTURE, 2176  
 ÖBLOM, K., 1331o  
 OCFEMIA, G. O., 2056  
 ODLAND, M. L., 1580, 1645  
 OGG, S., 1950k  
 OGG, W. G., 1331p  
 OGLE, W. L., 1579  
 OGNEV I. M. 1633  
 OKA H. 1815d  
 OKAMOTO, H., 1725i  
 OLDHAM, C. H., 1409  
 OLIVER, R. W., 1921  
 OLMO, H. P., 1399c  
 OLSEN, C., 1309  
 OLSSON, A., 1644  
 DEONG, E. R., 1529  
 VAN ONSEM, R., 1872  
 ORBEA, J. R., 1852  
 ORSENIGA, M., 1477  
 ORSENIGO, J. R., 1599  
 ORSHANSKY, G., 1245  
 OSBORNE, D. J., 1700  
 OSWALD, J. W., 1765  
 OTTAWA DIVISION OF HORTICULTURE, CENTRAL EXPERIMENTAL FARM, LOW TEMPERATURE INVESTIGATIONS, STORAGE LABORATORY, 2158  
 ÔTUKA, T., 1815d  
 OZEROV, G. V., 1389  
 VAN DER PAAUW, F., 1257  
 PADFIELD, C. A. S., 1368  
 PAGAN, C., 1533, 1870d  
 PALM, C. E., 1519  
 PAPE, H., 1907  
 PAREDES C., A., 1834  
 PARKER, E. R., 1965  
 PARKER, H. L., 1616  
 PARKER, M. W., 1915  
 PARMENTIER, G., 1684  
 PATEL, G. A., 1641, 1691  
 PATHAK, G. N., 1725j  
 PATTERSON, H. L., 1728  
 PATTERSON, R. E., 1251, 1603t  
 PAVGI, M. S., 1870k  
 PAVLYCHENKO, T. K., 1567  
 PEASE, R. W., 1458  
 (PEDERSON, K.), 2151  
 PEDERSON, M. W., 1329  
 PEER, K. C., 1529  
 PEETERS, F., 1873  
 PENNISI, L., 1966  
 PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION, 2177  
 PEPPER, J. O., 1950 l  
 PEREZ, R., 1626  
 PERKINS, J. F., 2111n  
 PERRY, A. L., 1786  
 PERUR, N. G., 2111o  
 PETERSON, A. G., 1775, 1782, 1783  
 PETROCHENKO, E. I., 1789c  
 PETTEY, F. W., 1568, 1569  
 PHILLIPS, W. R., 1467  
 (PHILLIPS, W. R.), 2158  
 PHILLIS, E., 2069, 2111p  
 PICKET, J. T., 1399j  
 PIPER, A., 1619  
 PIQUEMAL, A., 2061  
 PIROVANO, A., 1413  
 PITTIER, H., 2131  
 PIZER, N. H., 1664  
 PFLANZENKIEKENKUNDIGE DIENST, WAGENINGEN, 1612  
 DU PLESSIS, S. J., 1437  
 POAPST, P. A., 1467  
 (POAPST, P. A.), 2158  
 DE POERCK, R. A., 2058  
 POGOSJAN, S. A., 1412  
 POLJAKOV, I. M., 1794  
 POLJAKOVA, N. F., 1625  
 POLUNIN, JA. JA., 1643  
 POMARANOV, S. F., 1445  
 PONT, W., 1475  
 PONTO, S. A. S., 2035  
 POPHAM, R. A., 1882  
 PORTIER, G., 1436  
 PORTSMOUTH, G. B., 2097, 2105  
 POSNETTE, A. F., 2024, 2025, 2026  
 POTAPENKO, JA. I., 1414  
 POTTER, C., 1518, 1520, 1540e  
 POTTER, N. A., 1398  
 POVOLOČKO, P. A., 1399k  
 POWERS, L., 1695  
 PRATT, F. F., 1337  
 PREECE, I. A., 2178  
 PRENTICE, I. W., 1452  
 PREST, R. L., 1725k  
 PRESTON, R. D., 1867  
 (PRETORIA AGRICULTURAL RESEARCH INSTITUTE), 2152  
 PROKOŠEV, S. M., 1789c  
 PRUTHI, J. S., 2003d  
 PRYOR, D. K., 1603s  
 PŠENOVA, K. V., 1851  
 PURVES, C. M., 2006

- QUANTZ, L., 1648  
 QUASTEL, J. H., 1546  
 QUEENSLAND BOTANY SECTION, 1573  
 QUEENSLAND DEPARTMENT OF AGRICULTURE AND STOCK, 2179  
 QUIMBA, G. P., 1552  
 QUINN, D. G., 1418  
 RAHN, E. M., 1579  
 RALEIGH, G. J., 1624  
 RALEIGH, S. M., 1603t, 1603u, 1603v  
 RAMBIER, A., 1490  
 RAMIG, R. E., 1406  
 RAMOS, F. V., 2077  
 RAMSEY, G. B., 2067  
 RANDHAWA, G. S., 1399 l  
 RANGANATHAN, V., 2108  
 RASMUSSEN, A. O., 1950 l  
 RATKOVICH, M., 1986  
 RAYNER, R. W., 2049  
 RE, R. R., 1853  
 REICH, H., 1540t  
 REIMER, F. C., 1370  
 REINECKE, V., 1621  
 REINHARDT, J. F., 1373  
 REITSMA, J., 1720, 1721, 1725 l, 2010, 2031  
 RENNER, M. J., 1508  
 RIBBANDS, C. R., 1378  
 RIBEIRO, D. J., 1825  
 RICE, E. L., 1294  
 RICHARD, J., 1814  
 RICHARDS, A. A., 1884  
 RICHARDS, A. V., 2003e, 2109  
 RICHARDSON, C. H., 1502  
 RIES, V. H., 2127  
 RIETHUS, H., 1744  
 RIGNEY, J. A., 1250  
 RIJKSTUINBOUWVOORLICHTINGS-DIENST THE HAGUE, 2180  
 RISSINGER, M., 1343  
 RIVNAY, E., 1493  
 RJADNOVA, I. M., 1371  
 ROBBINS, W. T., 2074  
 ROBERTS, E. A. H., 1331t  
 ROBERTS, F. M., 1710  
 ROBERTSON, N. F., 2024, 2025  
 RODRIGUEZ, J. G., 1784  
 ROGERS, H. T., 1246  
 ROGERS, W. S., 1410  
 RÖNNEBECK, W., 1761  
 DE ROPP, R. S., 1289  
 DE ROSA, M., 1426  
 ROSILLO, M. A., 1811  
 ROSS, A. A., 1632  
 ROSS, H., 1733  
 ROSTIROLLA, G., 1441  
 LE ROUX, M., 1946  
 RUBBER RESEARCH INSTITUTE OF MALAYA, 2169  
 RUBIN, B. A., 1996  
 RUDAKOV, K. I., 1614  
 RUDOLF, W., 1732  
 RUI, D., 1441, 1451  
 RUSSELL, R. S., 1296, 1297  
 RYZKOV, V. L., 1806  
 SAMANTARAI, B., 1260  
 ŠANNIKOV, V. S., 1446  
 ŠAŠKINA, L. M., 1411  
 SAUNDER, D. H., 1317  
 SAVELJEVA, O. N., 1753  
 SCHAEFFER, L., 1538  
 SCHEIL, W., 1395  
 SCHLESINGER, W., 2111q  
 SCHNEIDER, F., 1530  
 SCHNELL, R., 2005  
 SCHÖNBERG, A., 1818  
 SCHOPP, R., 1646  
 SCHRANK, A. R., 1269  
 SCHREIER, O., 1725m  
 SCHROPP, W., 1610  
 SCHULZ, F., 1332  
 SCHUPHAN, W., 1789d  
 SCHURMAN, D. C., 1742  
 SCHWABE, W. W., 1883  
 SCHWALM, H. W., 1613  
 SCHWARTZ, E., 1779  
 SCHWARTZE, C. D., 1362  
 SCHWEIHEIMER, W., 2111r  
 SCOLES, C. L., 2099  
 SCOTT, W. A., 1791  
 SCULLY, N. J., 1298  
 SEALY, J. R., 1910  
 SEINHORST, J. W., 1771  
 SEIXAS, C. A., 2054  
 SELKE, R., 1517  
 SELMAN, G. G., 1687  
 SENN, T. L., 1434e  
 SERRANO, C., 2065  
 SEVERSON, G. M., 1858  
 SHAH, R., 1954  
 SHARMA, R. C., 1675  
 SHAW, A. C., 1331q  
 SHEFFIELD, F. M. L., 2029  
 SHERMAN, G. D., 2008  
 SHERWOOD, L. V., 1555  
 SHESSLER, S., 1430  
 SHEWELL-COOPER, W. E., 1950m  
 (SHEWFELT, A. L.), 2158  
 SHRIVASTAVA, R. C., 1863  
 SIDERIS, C. P., 2066  
 SIERRA, H. M., 1831  
 DE SILVA, C. A., 2068  
 SILVERIA, A., 1616  
 SIMMONS, J. A., 1603h  
 SIMMONS, P., 2001  
 SIMURA, T., 2107  
 SINA, A., 1818  
 SINCLAIR, W. K., 1749  
 SINDEN, J. W., 1665, 1668, 1669  
 SINGH, K., 1867  
 SINGH, R. N., 1725j  
 SINGH, T. C. N., 1954  
 SINHA, N. P., 1731  
 SINICKAJA, D. A., 1875  
 ŠIŠELOVA, N. A., 1614  
 SKILLMAN, E., 1906  
 SKOLKO, A. J., 1650  
 SKVORCOV, A. F., 2003f  
 SLATE, G. L., 1431  
 SLIFE, F. W., 1583  
 SLOOFF, W. C., 1720, 1721, 1725 l, 2010, 2031  
 SMART, J., 1331r  
 SMEE, C., 2002  
 SMIRNOV, V. F., 1367  
 SMIT, B., 1988  
 SMITH, B. C., 1924  
 SMITH, C. F., 1540u, 1656  
 SMITH, F. B., 1540v  
 SMITH, F. F., 1717  
 SMITH, F. G., 1940  
 SMITH, H. C., 1461  
 SMITH, K. M., 2132  
 SMITH, M. A., 2067  
 SMITH, O., 1589, 1591, 1599, 1603g  
 SMITH, W. L., Jr., 1770  
 SMYTH, V. D. O., 1940  
 ŠNEIDER, JU. I., 1984  
 SNYDER, J. C., 1358  
 SNYDER, W. E., 1578  
 SOKOLOVA, V. E., 1753  
 SOLOVJEVA, M. A., 1356  
 SOUTH AFRICA, *see* UNION OF SOUTH AFRICA  
 SOUTH AFRICAN SUGAR JOURNAL, 2181  
 SOUTHERN RHODESIA DEPARTMENT OF AGRICULTURE, 2147, 2160, 2161  
 DE SOUZA, A. J., 2053  
 SPARKS, W. C., 1785  
 SPERONI, H. A., 1979, 2003g  
 SPINA, P., 1375  
 SPRINKS, F. O., 2095  
 SPURLING, M. B., 1962  
 SPYHALSKI, E., 1513  
 SREENIVASAN, A., 1642  
 STAHLER, L. M., 1603w  
 STANILAND, L. N., 1886, 1887  
 STANTON, W. R., 1749  
 STAPLETON, N. M., 1725n  
 STAPLEY, J. H., 1523  
 STAPP, C., 1763, 1769  
 STARYGINA, L. P., 1614  
 STEBBINS, C. L., Jr., 2133  
 (STELLENBOSCH-ELSENBURG COLLEGE OF AGRICULTURE), 2170  
 STEPANOV, K. M., 1982  
 STEPANOV, S. N., 1357  
 STERLING, C., 1264  
 STERN, F. C., 1914  
 STEVENSON, F. J., 1730  
 STICKNEY, F. S., 2001  
 STIRLING, W. F., 1892  
 STODDARD, E. M., 1615  
 STOLL, K., 1438  
 STOLZE, K. V., 1628  
 STORAGE INVESTIGATIONS, KENTVILLE, N.S., 2158  
 STOREY, I. F., 1662  
 STOVER, R. H., 1807  
 (STRACHAN, C. C.), 2158  
 STRASHEIM, A., 1255  
 STREET, H. E., 1314  
 STRICKLAND, L. F., 1928  
 STROGANOV, A. K., 1725o  
 STUART, N. W., 1902, 1915  
 STUBBINGS, W. A. K., 1491  
 SUGAWARA, T., 1682, 1820  
 SUKH DEV, 1870h  
 SUMERFORD, W. T., 1540w  
 SUMMERLAND, B.C. FRUIT AND VEGETABLE PRODUCTS LABORATORY, 2158  
 SUŠICKŮ, L. A., 1476  
 SUZUKI, M., 1832  
 ŠVEDSKIJ, Z. M., 1699  
 SVENSON, B.-G., 1334  
 (SWANN, I. H.), 2158  
 SWEDEN, KUNGL. LANTBRUKSAKADEMIEN, 2193d  
 SWEET, R. D., 1581



SWERTS, E., 1352, 1359  
SY, M., 1501

TAFURO, A. J., 1550  
TAGORDA, Q. T., 1815e  
TAGUCHI, R., 1385, 1673  
TAI, E. A., 1964  
TAKAHASHI, M., 2079  
TAKI, K., 1606  
TALLEY, E. A., 1788  
TANGANYIKA DEPARTMENT OF  
AGRICULTURE, 2182  
TARANTOLA, M., 1281  
TARASEVIČ, L. M., 1806  
TARJAN, A. C., 1930  
TATCHELL, R. T., 1331q  
TAYLOR, M. E., 1743  
TERMAN, G. L., 1789e  
TERRY, C. W., 1603x  
TESTA, J., 2037, 2038, 2044, 2045  
TEUSCHER, H., 1933  
TEXAS AGRICULTURAL EXPERI-  
MENT STATION, 2183  
THÉE, J., 1939  
THIEL, J., 1876  
THIEM, H., 1540x  
THIMANN, K. V., 1291, 1603y  
THIRUMALACHAR, M. J., 1870k  
THOMAS, H. E., 1468  
THOMAS, M. D., 1308  
THOMAS, P. H., 1340  
THOMAS, R. S., 1864  
THOMAS, W. D. E., 1301  
THUNG, T. H., 1877  
TICQUET, C. E., 1331s  
TINSLEY, T. W., 1756  
TIRELLI, M., 1505  
TISCHLER, N., 1552  
TOBACCO RESEARCH STATION,  
RUSTENBURG, 1796  
TODD, J. M., 2024  
TOGARI, Y., 1692  
DU TOIT, J. L., 2085  
TOMBESI, L., 1280, 1281, 1282  
TOMLINSON, F. R., 1792  
TOMPKINS, C. M., 1885  
TORGESON, D. C., 1479  
TOSELLO, A., 2053  
TOTH, S. J., 1303  
TOYOMURA, S., 1881  
TRAPPMAN, W., 1515  
TRAUTNER, E. M., 1331t  
TRAVERSI, B. A., 1455  
TRULEVIČ, V. K., 1735  
TRUMBLE, H. P. C., 1968  
TSI, C. S., 1657  
TURICA, A., 1975  
TURK, L. M., 1305  
TYRWHITT, J., 2116  
TYSSER, H. F., 2184

ULLAL, R. R., 1316  
UNION OF SOUTH AFRICA DEPART-  
MENT OF AGRICULTURE, 2185  
(UNION OF SOUTH AFRICA, DIVI-  
SION OF BOTANY AND PLANT  
PATHOLOGY), 2153  
(UNION OF SOUTH AFRICA, DIVI-  
SION OF ENTOMOLOGY), 2173  
(UNION OF SOUTH AFRICA, DIVI-  
SION OF HORTICULTURE), 2142  
U.S. DEPARTMENT OF AGRICUL-  
TURE, 1540y, 1693, 1729,  
2193f

U.S. DEPARTMENT OF AGRICUL-  
TURE, BUREAU OF ENTOMOL-  
OGY AND PLANT QUARAN-  
TINE, 1540c  
U.S. DEPARTMENT OF AGRICUL-  
TURE, COOPERATIVE RESEARCH  
AND SERVICE DIVISION, FARM  
ADMINISTRATION, 1995  
USTINOVA, E. I., 1725p

VALENTINE, D. H., 1895  
VANDECAVEYE, S. C., 1406  
VANDERWALLE, R., 1683  
VANGELUWE, J. D., 1550  
VANSELL, G. H., 1373  
VANTSIS, J. T., 1315  
VASILENKO, T. S., 1371  
VEHMEYER, F. J., 1433  
VENKATARAMANI, K. S., 1724  
VELÁZQUEZ C., A., 1843  
VELDSTRA, H., 1284, 1331u  
VERBRUGGEN, A., 1631  
VERDIER, M., 1874  
VIEHMEYER, G., 1594  
VIETS, F. G., Jr., 1747  
VILLAMIL G., F., 2022  
VINCENT, A. E., 1339  
VINCENT, L. E., 2000  
VINTINNER, F. J., 1603z  
VITORIA, E. R., 1456  
VOLK, G. M., 1809  
VOLKOV, A. N., 1659  
VOROBIEVA, M., 2111k  
VORSTER, P. W., 1671  
VREED, M. C., 2073  
VYSKREBENCEVA, E., 2111k

WACHS, H., 1521  
WADE, G. C., 1439, 1678  
WADLEIGH, C. H., 1304  
WAGENINGEN, PLANTENZIEKTEN-  
KUNDIGE DIENST, 1612  
WAHL, I., 1879  
WAIN, R. L., 1700  
WAITE AGRICULTURAL RESEARCH  
INSTITUTE, DEPARTMENT OF  
ENTOMOLOGY, 1617  
WALKER, J., 1925  
WALKER, J. C., 1635  
WALKER, K. C., 1537, 1539  
WALLEN, V. R., 1650  
WALLY-VAN VREESWIJK, A. C.,  
1836  
WALTER, E. E., 1577  
WALTER, T. E., 2103  
WANDREKAR, S. D., 1642  
WANGERMANN, E., 1265  
WARDLAW, C. W., 2060  
WARINGTON, K., 1307  
WARK, D. C., 1649  
WARREN, S., 1343  
WARRINGTON, H. P., Jr., 1540f  
WASHAUER, B., 1725t  
WASHINGTON STATE AGRICUL-  
TURAL EXPERIMENT STATIONS,  
1729  
WATANABE, K., 1725q  
WATSON, J., 1259  
WAYGOOD, E. R., 1277  
WEAVER, L. O., 1473  
WEBSTER, C. C., 2002  
WEEKS, T. E., 1449  
WEGENEK, E., 1483

WEINBRENN, C., 1943  
WEINMANN, H., 1945, 1946  
WENT, F. W., 1253  
WESCHCKE, C., 1432  
WESTCOTT, C., 2134  
WESTERN CANADIAN SOCIETY OF  
HORTICULTURE, 2186  
(WESTERN PROVINCE FRUIT RE-  
SEARCH STATION), 2174  
WESTLAKE, W. E., 1534  
VAN WEZER, A., 2094  
WHITE, H. L., 1824  
WHITEHEAD, G. B., 1949  
WIEHE, P. O., 2002  
WIEDE, W., 1561  
WIKLANDER, L., 1748  
WILHELM, S., 1468  
WILKIE, D., 2135  
WILKINSON, B. R., 1363  
WILLCOX, O. W., 1847  
WILLIAMS, K. T., 1725f  
WILLIAMS, R. O., 2136  
DE WILLIGEN, A. H. A., 1751  
WILLIS, S. J., 1889  
WILSHAW, R. G. H., 2059  
WILSON, G., 2089  
WILSON, J. B., 1331v  
WILSON, J. D., 1558  
WINSTON, J. R., 1994  
WINTERS, H. F., 2028  
WINTERSTEINER, O., 1824  
WISHART, J., 2137  
(WITT, M. J.), 2158  
WITTWER, S. H., 1675, 1676  
WOLF, D. E., 1577, 1595, 1603i  
WOLFE, J. W., 1331w  
WOOD, C. A., 1405, 1482  
WOOD, H. E., 1560, 1571  
WOODHEAD, C. E., 1346, 1462  
WOODMAN, R. M., 2187  
WOODWARD, F. N., 1864  
WORLEY, D. P., 1563  
(WRIGHT, J.), 2164  
WRIGHT, L. E., 1742

YAMAMOTO, W., 1983  
YAMASAKI, M., 2078, 2081  
YASUDA, S., 1891  
YODER, J. B., 1669  
YOSHIDA, T., 1399m  
YOSIOKA, K., 1866  
YOSIOKA, S., 1881  
YOUNG, H. C., Jr., 1481  
YOUNG, H. E., 2070, 2071, 2072  
YOUNG, H. Y., 2066  
YOUNG, R. A., 1479  
YOWELL, H. L., 1554  
YUST, H. R., 1987

ZABALA, S., 1976  
ZÄCH, C., 1527  
ZAHAROVA, E. I., 1414  
ZAHNLEY, J. W., 1565, 1566  
ZAMBRA, G. L., 2138  
ZANZIBAR DEPARTMENT OF AGRI-  
CULTURE, 2188  
ŽDANOVA, L. P., 1275  
ZELENSKIĬ, M. A., 1347  
ZENTMYER, G. A., 1615  
ZIMMERMAN, P. W., 1603 l  
ZOBRIŠT, L., 1526  
ZOHARY, M., 1245, 1878  
ŽURIN, A. B., 1420





# INDEX

H.A. Vol. 21. No. 3.

N.B.—Brackets round the name denote that this person, although not the author, was directly or indirectly concerned with the article.

- A., C., 3017  
 ÅBERG, E., 2551  
 ABRUÑA, F., 2672  
 ACCORSI, W. R., 2972  
 ACKERMAN, W., 2311  
 ACKLEY, W. B., 2534  
 ADDICOTT, F. T., 2237, 2238  
 ADIWINOTO, R. S., 2552  
 ADRIANCE, G. W., 2968a  
 ADSUAR, J., 3068  
 AGATI, G., 2683  
 AKAMINE, E. K., 2538  
 ALARCON, P. J., 3008, 3011, 3088a  
 ALBEN, A. O., 2407, 2408  
 ALDERMAN, W. H., 2292  
 ALDRICH, D. G., 2918  
 ALEX, J. F., 2548  
 ALEXANDER, L. J., 2708a  
 ALIBERT, H., 2890  
 ALI-ZADE, M. A., 3076  
 ALLEN, M., 2521  
 ALLEN, M. W., 2473  
 ALLEN, O. N., 2854  
 ALTONA, R. E., 2570a  
 ALVAREZ GARCÍA, L. A., 3023, 3084  
 ALVIM, P. DE T., 3024  
 AMES, R. W., 2887a  
 AMOS, E. F., 2522  
 ANANDAN, A. P., 2992  
 ANDERSEN, A. L., 2614, 2621  
 ANDERSEN, E. T., 2561  
 ANDERSEN, O., 2869  
 ANDERSON, E. J., 3036, 3037  
 ANDERSON, J. C., 2375a  
 ANDERSON, L. D., 2708n  
 ANDERSON, P. J., 2781  
 ANDISON, H., 2274, 2493, 2867  
 ANON., 2270, 2272, 2297, 2375b, 2384, 2424, 2536a, 2570b, 2576, 2856, 3003, 3013, 3038, 3045, 3072  
 ANTHON, E. W., 2444, 2486  
 ARMAND, J. E., 2596, 2609, 2641  
 ARNOLD, C. Y., 2691  
 ARONOFF, S., 2228  
 ARTSCHWAGER, E., 3057  
 VON ARX, J. A., 2650, 2851  
 ASEN, S., 2870  
 ASHBY, W. C., 2242  
 ASQUITH, D., 2529  
 ATKINS, E. L., Jr., 2938, 2941  
 ATTOE, O. J., 2215  
 AUDAS, J. W., 3089  
 AVERY, G. S., Jr., 2249  
 AYCOCK, R., 2606  
 AZAREVIČ, E. M., 2633  
 BACON, J. S. D., 2707  
 BAINES, R. C., 2968b  
 BAKER, R. S., 2283h  
 BAKSI, A. JA., 2330  
 BALDINI, E., 2283a, 2328  
 BALDWIN, J. T., Jr., 2795, 2887b  
 BALLOT, —, 2403  
 BALTADORI, A., 2418a  
 BANGA, O., 2574, 2644  
 BANGHAM, W. N., 3044  
 BARANOVSKIĬ, A. L., 2385  
 BARBIER, G., 2375c, 2426  
 BARER, R., 2280  
 BARLOW, H. W. B., 2352, 2362  
 BARNES, A. C., 3088b  
 BARNES, D. F., 2507  
 BARNETT, R. J., 2285  
 BARRUS, M. F., 3044  
 BARTHOLOMEW, E. T., 2924  
 BARTON, G., 2801  
 BASKAYA, M., 2308  
 BASTELEUS, R., 2391  
 BATI, M. B., 2296  
 BATIER, L. P., 2327, 2358  
 BAUR, K., 2580  
 BEAKBANE, A. B., 2435  
 BEAR, F. E., 2213, 2581  
 BEARD, F. H., 2817, 2818  
 BEESON, D. M., 2449  
 BELS, P. J., 2630  
 BEMFIELD, E., 2809  
 BENDA, G. T. A., 2771  
 BENNETT, H., 2825  
 BENNETT, M., 2324, 2455  
 BENSAUDE, M., 2980  
 BENSON, N. R., 2534  
 BERAN, F., 2738  
 BERKELEY, G. H., 2887e  
 BERMUDA DEPARTMENT OF AGRICULTURE, 3101  
 BERTOSSI, F., 2755, 2757  
 BERWICK, E. J. H., 2987  
 BETANCOURT, H., 3005  
 BEVILACQUA, I., 2501  
 BIALE, J. B., 2282  
 BILIOTTI, E., 2523  
 BILLAUX, P., 2965  
 BISHOP, J. R., 2243  
 BITTERS, W. P., 2925  
 BLACKMAN, G. E., 2216, 2562  
 BLAIR, C. A., 2478  
 BLAIR, D. S., 2290  
 BLAIR, I. D., 2194  
 BLANCHARD, F. A., 2628  
 BLANCHARD, R. A., 2708b  
 BLEDSOE, R. W., 2320  
 BLESS, A. A., 2217  
 BLINN, R. C., 2832g  
 BLONDEAU, R., 2344  
 BLUMER, S., 2516  
 BODENHEIMER, F. S., 3090  
 BOEKENOOGEN, H. A., 2611  
 DE BOER, S., 2233  
 BOKE, N. H., 2887d  
 BOLOMEY, R. A., 2283r  
 BONDE, R., 2723  
 BONIFACIO, P., 2678  
 BONGIOVANNI, G. C., 2508, 2527  
 BONNEMAISON, L., 2721, 2722  
 BONNER, D. M., 2244  
 BONNER, J., 2283h  
 BONNET, J. A., 2672  
 BOONE, D. M., 2536m  
 BOOTH, C. O., 2586  
 BOSWELL, V. R., 2669  
 BOUBALS, D., 2401, 2476  
 BOUGARD, M., 2457  
 BOURDILLON, J., 2708c  
 BOURIQUET, G., 3088c  
 BOWES, P. C., 3030  
 BOYD, A. E. W., 2713, 2744  
 BRADFORD, G. R., 2918  
 BRANAS, J., 2434  
 BRANNAMAN, B. L., 2921  
 BRANTINGHAM, J. A., 2418b  
 BRAUN, A. C., 2264  
 BRAUN, A. J., 2470, 2536b  
 BREAKEY, E. P., 2491, 2536c  
 BREKKE, J. E., 2375d  
 BREVIGLIERI, N., 2375e  
 BRIAN, P. W., 2658  
 BRICKSON, L. C., 2921  
 BRIDGMON, G. H., 2619, 2863  
 BRIERLEY, P., 2421, 2848, 2866, 2887e  
 BRIGHT, N. F. H., 2536d  
 BRITISH COLUMBIA DEPARTMENT OF AGRICULTURE, 3102  
 BRITISH GUIANA DEPARTMENT OF AGRICULTURE, 3103  
 BROADBENT, B. M., 2947  
 BROADBENT, L., 2711  
 BRONSON, T. E., 2626  
 BROOKS, R. M., 2287  
 BROUHNS, G., 2983  
 BROWN, E., 2825  
 BROWN, H. S., 2237  
 BROWN, J. G., 2207, 2307  
 BROWN, J. W., 2246  
 BROWN, R., 2220  
 BROWN, R. T., 2961  
 BROWN, S. M., 2908  
 BROWNE, F. S., 2579  
 BRUCHER, F. J., 2671  
 BRUNE, W., 2283b, 2598  
 BRUNSON, M. H., 2532  
 BRYAN, C. E., 2832a  
 BUCHHOLTZ, W. F., 2461  
 BUDETTA, P., 2788  
 BUHRER, N., 2832b  
 BUKIN, V. N., 2418e  
 BULLOCK, R. M., 2342

- BURDICK, E. M., 2923  
BUREAU OF ENTOMOLOGY AND  
PLANT QUARANTINE, U.S.  
DEPARTMENT OF AGRICUL-  
TURE, 2708d, 2740  
BURGOYNE, J. H., 3030  
BURNETT, N. C., 2832a  
BURR, G. O., 3058  
BURSTRÖM, H., 2283c  
BUTJIN, J., 2334, 2375f  
BUTTERFIELD, H. M., 2887f
- CADMAN, C. H., 2380, 2447  
CAÏLAHAN, M. H., 2226  
CALVINO, E. M., 2862  
CAMFFERMAN, J., 2418h  
CAMPBELL, J. A., 2689  
CAMUS, G. C., 2748, 2749  
CANNON, F. M., 2737  
CAPINPIN, J. M., 2708e  
CAPUCCI, C., 2298  
CARDER, A. C., 2549  
CARLONE, R., 2354, 2355  
CARLONI, M., 2787  
CARLSFEN, E. W., 2364  
CARLSON, F. W., 2502  
CARLSON, R. F., 2563, 2565  
CARPENTER, T. R., 2451  
CARRA, —, 2967  
CARRIÈRE DE BELGARRIC, R., 3026  
[CARSON, G. P.], 3096  
CARTER, C. L., 2832c  
CARTER, R. H., 2531  
CARTER, W., 2536e  
CARVALHO, R. DE S., 3070  
CASAL, C. R., 2897  
CASTAGNOL, E. M., 2965  
CASTAÑO, A., J. J., 3088d  
CASTAÑO, J. J., 3018  
CASTELLANI, E., 2608  
CASTRILLÓN, J. A., 2832n  
CASTRO A., M. F., 2999, 3000  
CATION, D., 2466  
VAN CAUWENBERGHE, E., 2318,  
2326, 2375g  
CHABANNES, J., 2426  
CHABOUSSOU, F., 2640  
CHADWICK, L. C., 2887g  
CHADWICK, S. H., 2277  
CHAKRAVERTI, I. B., 3087  
CHAMBERLIN, F. S., 2780  
CHAMPION, J., 2283d  
CHANDLER, S. C., 2536r  
CHAPMAN, H. D., 2908, 2911,  
2913  
CHAPMAN, R. A., 2698  
CHAPOT, H., 2896  
CHASE, S. B., 2413  
CHAUDHRY, G. R., 2832d  
CHAVANCY, A., 2965  
CHEVALIER, A., 2389, 2708f, 2798,  
2806, 2832e, 2887h, 2887i  
CHILD, R., 2993  
CHILDS, J. F. L., 2932  
CHILDS, L., 2504  
CHILDS, W. H., 2378  
CHILE (COMPAÑIA CHILENA DE  
TABACOS), 3104  
CHILTON, S. J. P., 3069  
CHITTENDEN, A. E., 2802  
CHRIST, E. G., 2557  
CHRISTENSEN, E., 2715  
CHRISTIE, G. A., 3061  
CHRISTIE, J. R., 2968c
- CIFERRI, R., 2778  
CILLIE, G. G., 2958  
CLARK, P. G., 2480, 2500  
CLAYTON, E. E., 2767, 2777  
CLEM, M. A., 2283e  
CLEMENTS, H. F., 3060  
CLIFFORD, P. A., 2594  
CLORE, W. J., 2336, 2375q, 2418c  
COHIC, F., 2975  
COHEN, M., 2623  
COIT, J. E., 2804, 2966  
COKER, E. G., 2510  
COLE, J. R., 2421  
COLLYER, E., 2483  
COLONIAL DEVELOPMENT COR-  
PORATION, 3105  
COLONIAL RESEARCH COUNCIL,  
3106  
COMMONWEALTH ECONOMIC COM-  
MITTEE, 3107  
CONDIT, I. J., 3091  
COOK, H. T., 2421  
COOLEY, J. S., 2834  
COOMBER, H. E., 2802  
COOPER, W. C., 2901  
CORNFIELD, A. H., 2209, 2212  
CORNÜ, C., 2418d  
COSTA, A. S., 2928, 2929  
COTTON, R. T., 2536f  
COUPLAND, R. T., 2548  
COURTNEY, W. D., 2865  
COWGILL, W. H., 2997  
COX, J. A., 2407  
CRAFTS, A. S., 2252  
CRAIG, H. A., 2570c  
CRANDALL, B. S., 2988, 2989  
CRANE, J. C., 2306, 2307, 2308,  
2344, 2345  
CRESSMAN, A. W., 2947  
CRINS, W. H., 2302  
CROOK, E. M., 2742, 2743  
CROSSE, J. E., 2455  
CROSSLEY, A., 2827  
CRUESS, W. V., 2373  
CRUZ, A. O., 2826  
CRUZADO, H. J., 2537  
CUENOT, G., 2893  
CUMINGS, G. A., 2634  
CURCIO, M., 2751  
CURRIER, H. B., 2252  
CURTIS, P. J., 2513  
CUTHILL, J. C., 2536d
- DAGLISH, C., 2415, 2416, 2417  
DAKERS, J. S., 3092  
DALMASSO, G., 2386  
DARBY, J. F., 2747c  
D(AS), G. M., 3081  
DAVID, P. A., 2813  
DAVID, W. A. L., 2625  
DAVIDSON, F. F., 2829  
DAVIS, G. N., 2607  
DAVIS, J. F., 2601, 2269, 2634  
DAY, B. E., 2252  
DEAN, F. P., 2536g  
DEBACH, P., 2968d  
DECKER, P., 2679  
DEEMS, R. E., 2702  
"DE LANGE OSSEKAMPEN", 3119  
DELWICHE, C. C., 2753, 2768  
DEMAREE, J. B., 2448  
DEPARTMENT OF AGRICULTURE  
FOR SCOTLAND, 3124  
DERMEN, H., 2283f, 2833
- DERMINE, E., 2273, 2363  
DEROSE, H. R., 2550  
DEWEY, D. H., 2366  
DEZEEUW, D. J., 2614  
DIACHUN, S., 2776  
DÍAZ, M. A., 3023  
DICKINSON, D., 2952  
DICKSON, R. C., 2708o, 2927,  
2942  
DIJKMAN, M. J., 2799  
DIKE, H., 3081  
DILLER, V. M., 2628  
DIMOCK, A. W., 2840, 2849  
DIMOND, A. E., 2708g, 2846  
DITMAN, L. P., 2667  
DIVISION OF SPECIAL SURVEYS,  
U.S. DEPARTMENT OF AGRICUL-  
TURE, 2365  
DIXON, T. V., 2268  
DOEHLERT, C. A., 2438  
DONALDSON, J. H., 3065  
DONNELLY, M., 2905  
DOOLITTLE, S. P., 2421  
DOORENBOS, J., 2860  
DORMER, K. J., 2615  
DOW, P., 2665  
DOWSON, W. J., 2732  
DOXEY, D., 2240  
DRAKE, M., 2332  
DRAKE, R. J., 2926  
DROSDOFF, M., 2964  
DRUMMOND, O. A., 2931  
DUCHARME, E. P., 2930  
DUCKE, A., 2283g  
DUDLEY, J. E., Jr., 2626  
DUNCAN, D. A., 2546  
DUNEGAN, J. C., 2421, 2445  
DURMIŠIDZE, S. V., 2418e  
DYAR, M. T., 2224
- EAMES, A. J., 2247  
EAST MALLING RESEARCH STA-  
TION, 3108  
EATON, E. L., 2377  
EATON, S. V., 2692  
EDELMAN, J., 2707  
EDGINGTON, G., 2257  
EDWARDS, C., 2901  
VAN EEK, T., 2725  
EGGERT, F. P., 2375h  
EGGMAN, L., 2749  
ELLIS, D. E., 2657  
ELMER, O. H., 2670  
EMERSON, F., 2470  
EMSWELLER, S. L., 2835  
ENTOMOLOGICAL BRANCH, N.S.W.  
DEPARTMENT OF AGRICUL-  
TURE, 2584  
ERICKSON, L. C., 2922  
EVANS, H. J., 2213  
EVREINOFF, V. A., 2286, 2956
- FAAN, H. C., 2708h, 2708i  
FACCINI, G. C., 2196  
FALDI, G., 2494  
FARMER, V. C., 2205  
FASULIOTIS, G., 2735  
FAY, B. D., 3082  
FEDERER, W. T., 2283e  
FELDMESSER, J., 2735  
FELIX, E. L., 2520  
FÉJUVES, P., 2643  
FÉRON, —, 2536h, 2536i  
FICHT, J. P., 2545



- FIDLER, J. C., 2372  
 FIELDING, A. H., 2206  
 FIGUEROA P., A., 2704  
 FILLEN, E., 2810  
 FILLMORE, R. H., 2878  
 FINK, H. C., 2464  
 FINN, T. P., 2539  
 FISHER, F. E., 2946  
 FLANDERS, S. E., 2936, 2968e  
 FLEMING, H. K., 2382  
 FLEMING, W. E., 2489, 2886  
 FLOCK, R. A., 2927  
 FLORIDA, UNIVERSITY OF, 2832p  
 FOGLE, H. W., 2294  
 FOLL, S. C., 2872  
 FOLQUER, F., 2671  
 FOOTE, F., 2899  
 FORSEE, W. T., Jr., 2616  
 FOSTER, C. B., 3052  
 FOSTER, R. E., 2599  
 FOWLER, D. L., 2653  
 FOYTİK, J., 2375i  
 FRANCO, R. M., 3088e  
 FRANSSSEN, C. J. H., 2976  
 FRASELLE, J. V., 3029  
 FRASER, L., 2934  
 FREELAND, R. O., 2230  
 FRENCH, B. O., 2356  
 FRENCH, C. S., 2229  
 FRICK, E. L., 2526  
 FRIEND, W. H., 2968f  
 FRIESEN, H. A., 2570d  
 FRITZSCHE, R., 2333  
 FUKUDA, J., 2943  
 FUKUSHIMA, S., 2301  
 FULLMER, F., 2913  
 FULTON, H. R., 2421  
 FULTON, J. P., 2700  
 FULTON, N. D., 2700  
 FULTON, R. A., 2591  
 FULTON, R. W., 2769  
  
 GABEL, J. L., 2784  
 GALINAT, W. C., 2664  
 GALSTON, A. W., 2283h  
 GANGSTAD, E. O., 3022  
 GARDINER, B. O. C., 2625  
 GARDNER, M. W., 2695  
 GARNER, R. J., 2315, 2317  
 GASTON, H. P., 2276  
 GEISSMAN, T. A., 2839, 2850  
 GEORGIA EXPERIMENT STATION, 3109  
 GERLACH DE URHAN, M., 3011  
 GERRITSEN, C. J., 2295, 2409  
 GIGANTE, R., 2428  
 GILMER, R. M., 2443  
 GILMORE, A. E., 2279  
 GILMORE, J. U., 2789  
 GLAVINIĆ, R., 2685  
 GLENDENNING, R., 2739  
 GLENN, E. M., 2410  
 GOGIN, A. F., 2361  
 GOIDANICH, G., 2950  
 GOMEZ QUIROGA, F., 3088f  
 GONZALEZ, L. G., 2897  
 GONZÁLEZ MENDOZA, R., 2977  
 GOODEY, J. B., 2864  
 GOODIJK, J., 2198  
 GOPALAN, K., 2991  
 GORBEA, O., 3002  
 GORDON, S. A., 2210, 2283i  
 GORTNER, W. A., 2234  
  
 GORTON, B. S., 2901  
 GOUCK, H. K., 2708b  
 GOUGUENHEIM, M. R., 2490  
 GOULD, C. J., 2865  
 GRAHAM, T. W., 2783  
 GRAINGER, J., 2734  
 GRANT, T. J., 2928, 2929  
 GRAVES, A. H., 2404, 2418f  
 GROVES, J. R., 3093  
 GREEN, K. R., 2543  
 GREENHAM, D. W. P., 2331  
 GRENNINGER, D. M., 3012  
 GRIDGEMAN, N. T., 2283j  
 GREVEN, C., 3042  
 GRIES, G. A., 2730  
 GRIFFITHS, J. T., Jr., 2846  
 GRIGGS, W. H., 2312  
 GROMOBAJA, E. F., 2462  
 GROSJEAN, J., 2419, 2468  
 GUARD, A. T., 2300  
 GUENOT, —, 2403  
 GUENTHER, E., 2832f  
 GUILLEMAIN, R., 2890  
 GUILLLOU, R., 2536j  
 GUNTHER, F. A., 2832g  
  
 DE HAAN, I., 2860  
 DE HAAN-HOMANS, L. N. S., 3050  
 HAAS, A. R. C., 2912, 2914  
 HAASIS, F. A., 2657  
 HADIWIDJAJA, T., 2903, 3086  
 HAGEDORN, D. J., 2708j  
 HAGEMAN, R. H., 2820, 2821  
 HAGSAND, E., 2551  
 HALL, B. A., 2887j  
 HALL, E. G., 2951  
 HALL, S. A., 2591  
 HALLER, M. H., 2531  
 HAMAGUCHI, K., 2960  
 HAMILTON, D. W., 2506  
 HAMMAR, H. E., 2406, 2569  
 HANNON, C. I., 2701  
 HANSEN, C. M., 2634  
 HANSEN, E., 2357  
 HARDY, M. B., 2405  
 HARE, W. W., 2708k  
 HARMON, F. N., 2396  
 HARPER, J. L., 2514  
 HARRIS, F. J. T., 2952  
 HARRIS, G. H., 2383  
 HARRIS, R. V., 2447  
 HARRISON, A. L., 2686  
 HARTMAN, R. T., 2245  
 HARTMANN, H. T., 2309, 2310  
 HARTT, C. E., 3058  
 HASKELL, D., 2858  
 HASKELL, G., 2665  
 HASSAN, Z., 2283v  
 HATCHER, E. S. J., 2315  
 HAUER, A., 2283k  
 HAVIS, J. R., 2564  
 HAVIS, L., 2289  
 HAWAII AGRICULTURAL EXPERIMENT STATION, 3110  
 HAWLEY, I. M., 2489  
 HEDRICK, U. P., 3094  
 HEINIG, K. H., 2887k  
 HEISER, C. B., Jr., 2828  
 (HELLYER, A. G. L.), 3097  
 VAN DER HELM, G. W., 2651  
 HEMMING, H. G., 2513  
 HENAO, J. J., 3002  
 HESSE, C. O., 2312, 2319, 2329  
 HESTER, J. B., 2674  
  
 HIBBARD, A. D., 2350  
 HIDALGO FERNÁNDEZ-CANO, L., 2402  
 VAN HIELE, T., 2369  
 HILBORN, M. T., 2518, 2536k  
 HILDEBRANDT, A. C., 2267  
 HILDITCH, T. P., 2218, 2827, 2832h  
 HILLIER, J., 2281  
 HILLS, L. D., 3095  
 HILTON, R. J., 2718  
 HILTY, W. W., 2832i  
 HOBART, O. F., Jr., 2464  
 HOBBS, G., 25361  
 HOBLYN, T. N., 2321  
 HODGSON, R. W., 2889  
 HOFFMAN, J. C., 2616  
 HOFFMAN, J. R., 2655  
 HOGAN, W. D., 2694  
 HOLDEMAN, Q. L., 2783, 2792a  
 HOLDEN, M., 2762, 2763, 2764, 2765, 2766  
 HOLGATE, K. C., 2832j  
 HOLMES, F. O., 2792b  
 HOLT, A. S., 2229  
 HONG KONG SENIOR AGRICULTURAL OFFICER, 3111  
 HONNORAT, —, 2403  
 VAN HOOF, H. A., 2714, 2726, 2822  
 HOOKER, W. J., 2747a  
 HORSFALL, J. G., 2519  
 HORSPOOL, R. P., 2924  
 HOUGH, L. F., 2311, 2536s  
 HOUTMAN, G., 2467, 2492  
 HOWLAND, A. F., 2642  
 HOYMAN, W. G., 2747b  
 HUELSEN, W. A., 2602  
 HUGHES, C. G., 3071  
 HUGLIN, P., 2401, 2476  
 HULME, A. C., 2304, 2338, 2370  
 HUNTER, H., 3096  
 HYGEN, G., 2232  
  
 IBBOTSON, A., 27081  
 INDIAN AGRICULTURAL RESEARCH INSTITUTE, NEW DELHI, 3112  
 INDIAN COFFEE BOARD, 3113  
 INDIAN TEA ASSOCIATION, TOCK-LAI, 3114  
 INK, D. P., 2390  
 IRABAGON, T. A., 2708e  
 ISAACS, R. L., Jr., 2674  
 ISLIP, H. T., 2805, 2825  
 IVANOVSKIĬ, D. I., 2774  
 IWASAKI, T., 2898  
  
 J., J., 3017  
 J., R. M., 2832k  
 JACKS, H., 2575  
 JACKSON, R. K., 2207  
 JACKSON, T. H., 2374  
 JACOB, H. E., 2418g  
 JACOBS, S. E., 2620  
 JACOBS, W. P., 2235  
 JACOBSON, M., 28321  
 JAGENDORF, A. T., 2244  
 JAIVENOIS, A., 2535  
 JAMES, M. O., 2882  
 JAMESON, H. R., 2741  
 JANSON, B. F., 2807  
 JANY, E., 2627  
 JAVIER, S. V., Jr., 2570e  
 JEHL, R. A., 28871

- JENKINS, A. E., 28871, 2980  
JOHN INNES HORTICULTURAL INSTITUTION, 3115  
JOHNSON, A. T., 2887m  
JOHNSON, C. M., 22831  
JOHNSON, E. W., 2875, 2876  
JOHNSON, J., 2708h, 2708i, 2792c  
JOHNSON, M. A., 2883  
JOHNSON, M. M., 2927  
JOHNSTONE, D. B., 2515  
JOLEY, L. E., 2329  
JONES, D. R., 2732  
JONES, E. W., 2716  
JONES, M. W., 2217  
JOUBERT, F. J., 2958  
JOUBERT, T. G. LA G., 2631  
JOURDAIN, E., 2968g  
JOYNER, J. F., 3022  
JUANTORENA, J., 3073  
JUGANOVA, O. N., 2517  
JULIA, H., 3028  
  
KACNELJSON, S. M., 2690  
KANSAS AGRICULTURAL EXPERIMENT STATION, 3116, 3117  
KARPOV, G. K., 2360  
KEARNS, H. C. H., 2524  
KEBBY, R. G., 2902  
KEHL, F. H., 3074  
KEITT, G. W., 2454, 2536m  
KELLEY, V. W., 2536r  
KELLY, S., 2249  
KELLY, W. C., 2222  
KELSEY, R. H., 3088o  
KENDRICK, J. B., Jr., 2708m, 2708n  
KENKNIGHT, G., 2536n  
KENNEDY, J. S., 2586, 27081  
KENT, M., 2234  
KENYA, MOLO HORTICULTURAL STATION, 3118  
KEPNER, R. A., 2891  
KESTER, E. B., 2824  
KIDNER, A. W., 2595  
KIESER, M. E., 2340  
KIMBALL, M. H., 2414  
KING, L. J., 2539  
KING, N. J., 3056  
KIRBY, A. H. M., 2499, 2505, 2521, 2525, 2526  
KIRANOVA, V. A., 2874  
KIVEL, B., 2217  
KJENNERUD, J., 2855  
KLAPWIJK, J. G., 2651  
KLINKENBERG, C. H., 2429, 2536o  
KNJAZEV, A. A., 2853  
KNOPPIEN, P., 2485, 2530  
KOBERNUSS, E.-C., 2423  
KOBILITSKY, L., 2532  
KOEK, P. C., 2773  
KOELLREUTER, J., 2463  
VAN KOOT, Y., 2418h, 2571  
KORNEICUK, V. D., 2399  
KRIMBAS, B. D., 2387  
KRONE, P. R., 2563  
KROTKOV, G., 2303  
KUNDERT, J., 2516  
KUNGL. LANTBRUKSAKADEMIEN, SWEDEN, 3143  
KUNKEL, L. O., 2649  
  
L., F. W., 2271  
VAN DER LAAN, E., 2197  
VAN DER LAAN, P. A., 2785  
  
LABEYRIE, V., 2639, 2640  
LADEBURG, R. C., 2724  
LAFOLLETTE, J. R., 2968h  
LAFOND, J. A., 2756  
LAGASSE, F. S., 2964  
LAMBRECH, J. A., 2539  
LANGENAU, E. E., 2832f  
LANSADE, M., 2729, 2733  
LARSEN, P., 2283m  
LARSON, R. E., 2870  
LARSON, R. H., 2708y, 2724, 2747c  
LATHROP, F. H., 2536k  
LAUMONT, P., 2756  
LEAPER, J. M. F., 2243  
LEE, A. E., 2266  
LEEFMANS, S., 2487  
LEEWARD ISLANDS—DIRECTOR OF AGRICULTURE, 3120  
LEON, J., 2984  
LEONARD, C. D., 2581  
LEROY, J. F., 3088g  
LEVIN, J. H., 2276  
LEVINE, M., 2262, 2263, 2265, 2283n  
LEVITT, J., 2717  
LEWIS, F. H., 2441, 2529  
LHOMME, E., 3088h  
LILLELAND, O., 2207  
LILLY, C. H., 2275  
LIMASSET, P., 2747d  
LINDHARDT, K., 2474  
LITTLE, J. E., 2515  
LOBSTEIN, J., 2939  
LOEVEN, W. A., 2635  
LONG, J. K., 2951  
LOOMIS, N. H., 2418i  
LOOS, C. A., 3078  
LOOSJES, F. E., 2861  
LOUSTALOT, A. J., 2537  
LOWSBERY, B. F., 2736  
LOWSBERY, J. W., 2736  
LUTOHIN, S. N., 2578  
  
McCLURE, T. T., 2676  
MACDANIELS, L. H., 2868  
MCDONOUGH, E. S., 2872  
MACEWAN, A. M., 2256  
McEVOY, E. T., 2752  
MCGILLIVRAY, K. D., 2903  
MACHADO S., A., 2831, 2998, 3009, 3032  
McILWAINE, A., 2979  
MACKAY, J. W., 3088i  
McKEEN, C. D., 2708o  
MCKINLAY, K. S., 2521, 2525  
MACLAGAN, D. S., 2708p  
MACMILLAN, W. G., 3087  
MCMURTREY, J. E., Jr., 2767  
McWHORTER, F. P., 2866  
MADRAS DEPARTMENT OF AGRICULTURE, 3121  
MAGELLI, E., 2682  
MAHFUDI, M., 2888  
MAI, W. F., 2736, 2747e  
MALENÇON, G., 2954  
MALLAMAIRE, A., 2974  
MANARESI, A., 2325  
MANN, L. K., 2604  
MARAMOROSCH, K., 2841  
MARCELLI, E., 2778  
MARCUS, C. P., 2448  
MARINARI, A., 2880  
MARKE, D. J. B., 2275  
  
MARKHAM, E., 3097  
MARKOVIĆ, A. A., 2873  
MARLÉ, G., 2479  
MAROC, RESIDENCE GENERALE DE LA REPUBLIQUE FRANÇAISE AU, 2955  
MARSH, M. M., 2832i  
MARSHALL, E. R., 2746  
MARTELLI, G. M., 2496  
MARTIN, W. J., 2677  
MARTÍNEZ ZAPORTA, M., 2402  
MARTYN, E. B., 2979  
MARUCCI, P. E., 2438  
MARX, T., 2693  
MASON, A. C., 2208, 2211  
MASON, C. L., 2450  
MASON, C. T., Jr., 2887n  
MASSEE, A. M., 3093  
MASTERS, L. C., 2899  
MATTHEWS, W. S. A., 2805  
MATTSON, S., 2617  
MATVEEV, M. I., 2359  
MAURITIUS SUGARCANE RESEARCH STATION, 3122  
MAXWELL, N., 29681  
MAYEUX, H. S., 2681  
MAYMONE, B., 2982  
MEARA, M. L., 2832h  
MELLIER, M.-T., 3031  
MELTZER, J., 2485  
MENDIOLA, N. B., 3088j  
MENEGHINI, M., 2768  
MENTZ, N. J., 2570a  
MERICLE, L. W., 2254  
MERRIAM, D., 2723  
MERRILL, L. G., Jr., 2610  
MERRILL, S., 2961  
MEYER, W. H., 3040  
MEZZETTI, A., 2696, 2859  
MICHAUX, P., 3027  
MICHELbacher, A. E., 2705  
MIDDELBURG, H. A., 2784  
MIELLER, H., 2488  
MIHAİLOVA, P. V., 2750  
MILBRATH, J. A., 2442  
MILLER, E. V., 3035  
MILLER, M. P., 2906  
MILLER, P. R., 2583  
MILLER, P. W., 2421  
MILLER, W. W., 2966  
MINARIK, C. E., 2241  
MINISTER FOR AGRICULTURE, DUBLIN, 3144a  
MINISTRY OF AGRICULTURE, LONDON, 2375j, 2509, 2589, 2629, 2646, 2708q, 3123, 3124  
MINISTRY OF AGRICULTURE, NORTHERN IRELAND, 3124  
MINSHALL, W. H., 2556  
MITCHELL, C. E., 2602  
MODLIBOWSKA, I., 2343  
MODHANTY, U., 2620  
MOLO HORTICULTURAL STATION, KENYA, 3118  
MONACHINO, J., 2797  
MONCIERO, —, 2953  
MONTELABATE, J., 2708f  
MONTENEGRO, H. W. S., 2316, 2745  
MOORE, C. A., 2706  
MOORE, J. D., 2708x, 2446  
MOORE, M. H., 2324, 2456  
MOORES, R. G., 3012  
MORALES, J. O., 3044



- MOREL, G., 2260, 2261, 2264  
 MORETTI, A., 2288, 2313, 2337  
 MORGAN, W. L., 2585  
 MORI, H., 2960  
 MOTHE, K., 2759  
 MOUBASHER, R., 2283v  
 MOUTON, J. E., 2563, 2565  
 MOWRY, J. B., 2536p  
 MOZAWA, R., 2605  
 MUKHERJEE, S. K., 3055  
 MÜLLER-STOLL, W. R., 2472  
 MUNGER, F., 2947  
 MURNEEK, A. E., 2350  
 MUSHROOM RESEARCH ASSOCIATION LTD., YAXLEY, 3125  
 MUSIL, A. F., 2597  
 MUZIK, T. J., 2537  
 MYERS, H. E., 2708s  
 MYŚLICKA, Z., 2814
- NAKAMURA, M., 2968i  
 NAKATA, S., 2957  
 NATHANAEL, W. R. N., 2993  
 NATIONAL SHADE TREE CONFERENCE, SYRACUSE, N.Y., 3126  
 NAVELLIER, E., 2278, 3034  
 NAYLOR, A. W., 2283o, 2664  
 NEBRASKA AGRICULTURAL EXPERIMENT STATION, 3127  
 NEFF, M. S., 2962, 2963  
 NEILSON, C. L., 2739  
 NEISWANDER, C. R., 2593  
 NEISWANDER, R. B., 2593  
 NELSON, K. E., 2471  
 NELSON, R., 2637, 2708t, 2800  
 NESTERENKO, G. A., 2968j  
 NEWCOMER, E. J., 2502, 2536g  
 NEW DELHI, INDIAN AGRICULTURAL RESEARCH INSTITUTE, 3112  
 NEWHALL, A. G., 2638  
 NEWHOOK, F. J., 2659, 2660  
 NEWTON, R. G., 3088k  
 NICHOLAS, D. J. D., 2206, 2283p  
 NIELSEN, L. W., 2675  
 NILSSON, P. E., 2258  
 NISHIYAMA, I., 2652  
 NISSEN, T. V., 2283q  
 NOGGLE, G. R., 2283r  
 NOGUCHI, Y., 2663  
 NOONAN, J. B., 2747f  
 NOORDAM, D., 2842, 2845, 2851  
 NORBURY, C. P., 2375k  
 NORDISKA JORDBRUKSFORSKARES FÖRENING, 3143  
 NORTEN, H. T., 2253  
 NORTHERN NUT GROWERS' ASSOCIATION INC., 3128  
 NORTHERN RHODESIA DEPARTMENT OF AGRICULTURE, 3144b  
 NOVA SCOTIA FRUIT GROWERS' ASSOCIATION, 3129  
 N.S.W. DEPARTMENT OF AGRICULTURE, ENTOMOLOGICAL BRANCH, 2584  
 NYASALAND PROTECTORATE DEPARTMENT OF AGRICULTURE, 3130
- O'BRIEN, M., 2583  
 OCFEMIA, G. O., 2570e  
 OKNINA, E. Z., 2873  
 OLIVER, R. W., 2836, 2837
- OLNEY, V. W., 2504  
 OLSON, E. O., 2933, 2935  
 O'NEIL, W. J., 2482  
 ONO, T., 2815  
 OOSTENBRINK, M., 2624  
 OPARIN, A. I., 3083  
 OREGON AGRICULTURAL EXPERIMENT STATION, 3131  
 O'ROURKE, N., Jr., 2962, 2963  
 OSBORN, E. M., 2514  
 OSIPOV, I. G., 2968k  
 OSWALD, J. W., 2731  
 OTEY, G., 2592  
 OVERSEAS FOOD CORPORATION, 3132  
 OWEN, J. H., 2968c  
 OZEROV, G. V., 2904
- PAGAN, C., 2820  
 PAGE, O. T., 2747a  
 PAINE, J., 2816  
 PAINE, L. A., 2555  
 (PALMER, R. C.), 3135  
 PALMIRA, FACULTAD DE AGRONOMIA, 3142  
 PANDALAI, K. M., 2992  
 PANELLA, A., 2758  
 PANGGA, G. A., 2978  
 PANSIER, E., 2495  
 PAPHY, H. R., 2970  
 PAQUES, M., 2273  
 PARKER, E. R., 2925  
 PARKER, J. R., 2536v  
 PARRA, J., 3011  
 PATEL, C. B., 2832h  
 PAVARI, A., 2465  
 PAVLYCHENKO, T. K., 2570f  
 PEARCE, S. C., 2199  
 PEARSON, G. A., 2283 i  
 PEENS, J. F., 2790, 2791  
 TER PELKWIJK, A. J., 2376  
 PENCE, R. J., 2892  
 PENNOCK, W., 3033  
 PERCIVAL, E. G. V., 2832m  
 PEREAU-LEROY, P., 2920  
 PERKINS, G. G., 3075  
 PERRIER, D., 2490  
 PERRY, F., 3098  
 PERSON, L. H., 2677  
 PESANTE, A., 2430  
 PETERSEN, D. H., 2466  
 PETERSON, A., 2708w  
 PETRAHILEV, I., 2536q  
 PETRUCCI, V. E., 2306  
 PETTINGA, J. J., 2452  
 PEYER, E., 2398  
 PFÄLTZER, A., 3047  
 PHILLIPS, G. A. R., 3099  
 PHILLIS, E., 3048  
 PICHEL, R. J., 3041  
 PICKETT, W. F., 2323  
 PIRIE, N. W., 2761, 2762  
 PITCHER, R. S., 2487  
 Piquer, G., 2433  
 PLACK, R. L., 2615  
 PLAKIDAS, A. G., 2881, 2882, 2887o  
 PLANK, H. K., 2819  
 PLANT, W., 2600  
 VAN DE PLASSCHE, A. W., 2283s, 3139  
 PLAYFAIR, L., 2568  
 PLUMMER, C. C., 2937  
 DE POERCK, R., 2969
- POHL, R., 2283t, 2887p  
 POLIAKOV, I. M., 2750  
 POLLARD, A., 2340  
 POLLARD, A. G., 2209, 2212, 2536t  
 PONS, R., 2639, 2640  
 PONTIS, R. E., 3015  
 PORRITT, S. W., 2371  
 PORTE, W. S., 2708u  
 PORTER, R. H., 2577  
 PORTERFIELD, W. M., Jr., 2572  
 PORTSMOUTH, G. B., 3079  
 POSNETTE, A. F., 2439  
 POTGIETER, J. E., 2214  
 POUND, G. S., 2653, 2697  
 POURCHARESSÉ, P., 2392  
 POWWER, A., 2425  
 POWELL, D., 2536r  
 POWERS, E., 2300  
 PRESTON, A. P., 2283u, 2324, 2362  
 PRICE, W. C., 2245  
 PRINCIPI, G., 2887g  
 PROEBSTING, E. L., 2422  
 PROKOŠEV, S. M., 2719  
 PUCCINI, G., 2884  
 PUPILLO, M., 2950  
 PURVIS, E. R., 2213
- QUANIER, H. M., 2459  
 QUEENSLAND ACCLIMATISATION SOCIETY, 3144c  
 QUEENSLAND BUREAU OF SUGAR EXPERIMENT STATIONS, 3133  
 QUIDET, P., 2375c
- R., D. E., 3088 i  
 RAALTE, D., 2887t  
 RACKOV, V. M., 2393  
 RAGGIO, M., 2219  
 DE RAGGIO, N. M., 2219  
 RAMIRO, M. P., 3088m  
 RASKI, D. J., 2473  
 RAUCOURT, —, 2420, 2498  
 RAYNER, R. W., 3020, 3021  
 READ, W. H., 2590  
 READY, D., 2241  
 REATH, A. N., 2601  
 REBOUR, H., 2375 i, 2375m, 2375n, 2909  
 REED, C. F., 2554, 2857  
 REINKING, O. A., 2995  
 REITZ, H. J., 2919  
 RESIDENCE GENERALE DE LA REPUBLIQUE FRANÇAISE AU MAROC, 2955  
 RETI, L., 2832n  
 REUTHER, W., 2907, 2915, 2917  
 RHODAS, A. S., 2453  
 RHODES, A., 2240  
 RICCI, A., 2299  
 RICH, A. C., 2349  
 RICH, S., 2519, 2656  
 RICHARDSON, H. P., 2493  
 EL RIDI, M. S., 2283v  
 RIERA, F. J., 2353  
 RIKER, A. J., 2267, 2854  
 ROBERTS, A. N., 2357  
 ROBERTS, E. A. H., 3088n  
 ROBERTS, H. A., 2562  
 ROBERTS, R. H., 2347  
 ROBINSON, A. G., 2493  
 ROBINSON, J., 2604  
 ROBINSON, J. B. D., 3064

ROBINSON, W. O., 2257  
 RODNEY, D. R., 2320  
 RODRIGO, P. A., 2632  
 RODRÍGUEZ, A., 3007  
 RODRIGUEZ, J. G., 2593  
 ROED, H., 2636  
 ROGER, B. E., 2374  
 ROGERS, W. S., 2435  
 ROGOV, N., 2397  
 ROHRBAUGH, P. W., 2968 1  
 ROMAŠKO, I. S., 2503  
 ROMEIKE, A., 2759  
 VAN ROOYEN, C. F., 2790, 2791  
 ROSEN, H. R., 2871  
 ROSENQUIST, E. A., 2985  
 ROSILLO, M. A., 2786  
 ROSS, A. F., 2437  
 ROSS, A. G., 2832m  
 ROSSI, F., 2293, 2375o  
 ROTOR, G., Jr., 2868  
 RUBIN, B. A., 2305  
 RUEHLE, G. D., 3025  
 RUMLEY, G. E., 2844  
 RUNGS, C., 2490  
 RUSSELL, SIR E. J., 3100  
 (RUSSELL, E. W.), 3100  
 RUSSO, F., 2894, 2895

SACHS, L., 2684  
 SADASIVAN, V., 2994  
 SAITO, K., 2838  
 SALISBURY, SIR E., 2284  
 SAMUELS, G., 3063  
 SANDERSON, M., 2203  
 ŠANKARASUBRAMONY, H., 2992  
 ŠANTAVÝ, F., 2793  
 SARAWAK DEPARTMENT OF AGRICULTURE, 3134  
 SASSER, J. N., 2735, 2782  
 SAUNDERS-SINGER, A. E., 2280  
 SAX, K., 2322  
 SCARAMUZZI, F., 2291, 2808  
 ŠČEPOTJEV, F. L., 2411, 2412  
 SCHATZ, A. S., 2930  
 SCHEFFER, R. P., 2709a  
 VAN SCHELTINGA, J. J. de B., 2553  
 SCHMIDT, E., 3088o  
 SCHMIDT, W. A., 2691  
 SCHNIDER, H., 2899  
 SCHNELL, R., 2796  
 SCHRADER, O. L., 2680  
 SCHREIER, O., 2587  
 SCHROEDER, C. A., 2889  
 SCHRUMPF, W. E., 2710  
 SCHULTZ, E. S., 2421  
 SCHULTZ, H., 2887s  
 SCHWEIZER, J., 3039, 3077  
 SCOTT, D. H., 2283f, 2390  
 SCOTT, L. E., 2673  
 SEALE, C. C., 3022  
 SEAY, W. A., 2215  
 SEIKEL, M. K., 2839, 2850  
 SERRANO, C., 3085  
 SEXSMITH, J. J., 2547  
 SHAH, R., 3059  
 SHARMA, V. N., 2832d  
 SHARP, D. G., 2792d  
 SHARP, S. S., 2511  
 SHAULIS, N. J., 2566  
 SHAW, J. G., 2937  
 SHAW, R. H., 2712  
 SHAY, J. R., 2536s  
 SHELTON, F. A., 2674

SHIELDS, L. M., 2283w  
 SHOJI, K., 2238  
 SIAENS, M. F., 2375p  
 SIDDIQUI, S., 2832d  
 SIEGEL, S. M., 2236  
 SILL, W. H., Jr., 2708v  
 SINCLAIR, W. B., 2924  
 SISAKJAN, N. M., 2305  
 SITES, J. W., 2919  
 SITTON, B. G., 2408, 2567  
 SLATE, G. L., 2959  
 VAN SLOGTEREN, E., 2720  
 SLOOF, W. C., 2812  
 SMIRNOFF, W., 2944, 2945  
 SMITH, B. C., 2877  
 SMITH, C. T., 2332  
 SMITH, F. F., 2591, 2594, 2848, 2887e  
 SMITH, F. O., 2461  
 SMITH, F. W., 2708s  
 SMITH, N. M., 3067  
 SMITH, O., 2746  
 SMITH, O. J., 2708w  
 SMITH, P. F., 2907, 2915, 2917  
 SMITH, P. G., 2695  
 SMITH, R. F., 2229  
 SMITH, W. K., 2513  
 SMOYER, K. M., 2916  
 SNYDER, E., 2396  
 SOLAROLI, V., 2508, 2527  
 SOMERS, G. F., 2222, 2223  
 SORBER, D. G., 2414  
 DE SORNAY, P., 3066  
 SOUBIHE SOBRINHO, J., 2316  
 SOUBES, B., 2484  
 SOUTHWICK, F. W., 2346  
 SPARROW, A. H., 2715  
 SPEESE, B. M., 2887b  
 SPENCER, J. L., 2847  
 SPRAGUE, R., 2458  
 STAALDUINE, D., 2418h  
 STAFFORD, E. M., 2507  
 STAHLER, L. M., 2251  
 STAHMANN, M. A., 2770  
 STANBERRY, C. O., 2336, 2375q  
 STEIB, R. J., 3069  
 STEINBERG, R. A., 2259, 2754  
 STEINER, G., 2421  
 STEPHEN, A. M., 2832o  
 STEVENS, W. L., 2202  
 STEVENSON, G. C., 3053  
 DE STIGTER, H. C. M., 2603  
 STODDARD, E. M., 2469, 2846  
 STOECKELER, J. H., 2541  
 STOKES, D. R., 2364  
 STONER, W. N., 2666, 2694  
 STOUT, P. R., 2283 1  
 STOVER, R. H., 2775, 2792e, 2792f  
 STRAUS, W., 2231  
 STREET, R. W., 2303  
 STRINGER, A., 2536w  
 STRUBLE, F. B., 2454  
 STRUCKMEYER, B. E., 2347  
 STRYDOM, J. C., 2887t  
 STUBBINGS, W. A. K., 2477  
 VAN STUIVENBERG, J. H. M., 2425  
 SUÁREZ DE CASTRO, F., 3001, 3004, 3005  
 SUBBA RAO, N. V., 2536t  
 SUBRAMANYAM, K., 2852  
 SUMMERLAND B.C. DOMINION EXPERIMENTAL STATION, 3135  
 SUOMELA, H., 2823  
 SWANBACK, T. R., 2781

SWAZILAND DEPARTMENT FOR NATIVE LAND SETTLEMENT 3144d  
 SWETS, W. A., 2238  
 SWINGLE, C. F., 2339  
 SZEMBER, A., 2341  
 SZKOLNIK, M., 2990  
 TAFURO, A., 2557  
 TAKASUGI, K., 2652  
 TALBURT, W. F., 2375d  
 TAMM, C. O., 2204  
 TANGANYIKA COFFEE RESEARCH AND EXPERIMENTAL STATION, 3136  
 TANNER, C. C., 2741  
 TASMATOV, L. T., 2900  
 TAVADZE, P. G., 2394  
 TAYLOR, J., 2200, 2201  
 TEILLARD, —, 2283x  
 TERRA, G. J. A., 2971  
 THEIS, T. N., 2854  
 THOM, J. M. S., 2199  
 THOMAS, A., 3030  
 THOMAS, C. A., 2794  
 THOMAS, W. D., Jr., 2844  
 THOMPSON, A., 2986  
 THOMPSON, A. H., 2327  
 THOMPSON, L. A., 2319  
 THORNBERRY, H. H., 2449  
 THUNG, T. H., 2725, 2842  
 TIBERIO, M., 2982  
 TILJENS, V. A., 2582  
 (TILFORD, P. E.), 3126  
 TIMS, E. C., 2708f  
 TIRADO SULSONA, P., 2672  
 TOMLINSON, W. E., Jr., 2438, 2475  
 TOPLEY, B., 2536u  
 TORRISI, M., 2894, 2895  
 TOSCO, U., 2949  
 TRACEY, M. V., 2760, 2762, 2763, 2765  
 TRECCANI, C. P., 2314, 2368, 2395, 2688  
 TREMBLAY, F. T., 2580  
 TRIANA, J. V., 2830, 3019  
 TRICANICO, S., 2195  
 TRISTRAM, G. R., 2283y  
 TROCME, S., 2375c  
 TROUTMAN, J., 2776  
 TROWELL, G. F., 2351  
 TRUOG, E., 2215  
 TURNER, N., 2779  
 TURNER, P. E., 3062

UGANDA DEPARTMENT OF AGRICULTURE, 3137  
 ULRICH, R., 2283z  
 UNDERHILL, G. W., 2481  
 UNITED PLANTERS' ASSOCIATION OF SOUTHERN INDIA (U.P.A. S.I.), 3138  
 URHAN, O., 3014  
 U.S. DEPARTMENT OF AGRICULTURE, 2740, 2832p  
 U.S. DEPARTMENT OF AGRICULTURE, BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE, 2708d  
 U.S. DEPARTMENT OF AGRICULTURE, DIVISION OF SPECIAL SURVEYS, 2365  
 USHIROZAWA, K., 2301



- VAAS, K. F., 2560  
 VALLANCE, K. B., 2558, 2559  
 VALLANCE, L. G., 3051  
 VALLEAU, W. D., 2772  
 VANETTI, F., 2703  
 VAN GELUWE, J., 2557  
 VANSELOW, A. P., 2918  
 VARNEY, E. H., 2708x  
 VASCONCELLOS, P. W. C., 2910  
 VATTER, A. E., 2449  
 VAUGHN, J. R., 2885  
 VAN DER VECHT, J., 2996  
 VENTURA, E., 2498, 2523  
 VERHAAR, G., 3049  
 VERHAVER, A., 2367  
 VERHEY, C., 2613  
 VERKEEK, K., 2645, 2687  
 VERMA, G. S., 2654  
 VICENTE ARBOLEDA, J., 3085  
 VIDAL, J. P., 2388  
 VIETS, F. G., Jr., 2618  
 VILARDEBO, A., 2981  
 VILLANOVA, T., 3006  
 VILLIERS, F. H., 2268  
 VIRTANEN, A. I., 2221  
 VITUM, M. T., 2599  
 VLASVELD, W. P. N., 2460  
 VOLLEMA, J. S., 3042, 3043, 3046  
 VORSTER, P. W., 2631  
 VOSKRESENSKAJA, N. P., 2225  
 VRIJHOF, B., 2348  
 VYVYAN, M. C., 2351  
  
 WAGENINGEN, 3139  
 WAGGONER, P. E., 2712, 2747g  
 WAHID, M. A., 3069  
 WAIBEL, C. W., 2933  
 WAIN, R. L., 2239, 2590  
 WAKELAND, C., 2536v  
 WALKER, J. C., 2708y, 2708z, 2724  
 WALKER, K. C., 2534  
  
 WALLACE, J. M., 2926  
 WALLIN, J. R., 2727, 2728  
 VAN DER WANT, J. P. H., 2842, 2843  
 WARNE, L. G. G., 2647, 2648  
 WATSON, D. J., 2742, 2743  
 WATT, J. H., 2379  
 WATZL, O., 2588  
 WEARN, R. B., 2832a  
 WEBER, G. F., 2701  
 WEBER, R. P., 2210, 2283i  
 WEBSTER, R. L., 2536c  
 WEEKS, G. W., 2482  
 WEEKS, W. D., 2332, 2346  
 WEI, C. T., 2709a  
 WEINBERGER, J. H., 2431, 2432  
 WEINTRAUB, R. L., 2246, 2255  
 WELLENSTIEK, S. J., 2645, 2687, 2860  
 WELLMAN, F. L., 3016  
 WELLS, D. G., 2612  
 WELLS, J. S., 2879  
 WELSH, M. F., 2440  
 WENE, G. P., 2592, 2681, 2940, 2948  
 WENT, F. W., 2748  
 WEST AFRICAN CACAO RESEARCH INSTITUTE (W.A.C.R.I.), 3140  
 WEST OF SCOTLAND AGRICULTURAL COLLEGE, 3141  
 WESTLAKE, W. E., 2528, 2533  
 WETMORE, R. H., 2260, 2261  
 WHETSTONE, R. R., 2257  
 WHITE, H. E., 2847  
 WHITEHEAD, E. I., 2251  
 WIEBOSCH, W. A., 2573  
 WIGHTMAN, G. M., 3054  
 WILCOX, J., 2642  
 WILDE, M. H., 2248  
 WILDMAN, S. G., 2749  
 WILES, A. B., 2708z, 2709b  
 WILHELM, A. F., 2400  
  
 WILKS, J. M., 2440  
 WILLIAMS, C. F., 2381  
 WILLIAMS, W. T., 2227  
 WILSON, D. G., 2303  
 WILSON, G. B., 2512  
 WILSON, G. L., 2216  
 WILSON, J. D., 2699  
 WILSON, J. R. W., 2540  
 WILSON, R. D., 2622  
 WINKLER, A. J., 2418g  
 WISCONSIN AGRICULTURAL EXPERIMENT STATION, 3144e  
 WITTWER, S. H., 2601  
 WOLF, F. A., 2792d  
 WOLFE, H. R., 2444  
 WOOD, C. A., 2380  
 WOOD, D. J., 3088n  
 WOOD, R. K. S., 2661, 2662  
 WOODBRIDGE, C. G., 2427  
 WOODBURY, N. H., 2536d  
 WOODCOCK, D., 2536w  
 WOODWARD, R. S., 2407  
 WORSWICK, G. D., 2335  
 WORT, D. J., 2250  
 WRESSELL, H. B., 2668  
 WRIGHT, A. H., 2889  
 WRIGHT, D. W., 2731  
 WYMAN, D., 2887u  
  
 YARWOOD, C. E., 2623, 2709c  
 YEATES, J. S., 2436  
 YOSHIDA, I., 2943  
 YOTHERS, M. A., 2528, 2536x  
 YOUNG, R. E., 2282  
  
 ZAMBETTAKIS, C., 2973  
 ŽDANOV, L. A., 2811  
 ZIMMERMAN, P. W., 2855  
 ZIMMERMAN, W. E., 2542  
 ZINK, F. W., 2607  
 ZUBRISKI, J. C., 2339  
 ZWEEDE, A. K., 2375r





# INDEX

H.A. Vol. 21. No. 4.

N.B.—Brackets round the name denote that this person, although not the author, was directly or indirectly concerned with the article.

- ABEL, A. L., 3492a  
 ABERCONWAY, LORD, 3916a  
 ABRAHAM, E. P., 3451  
 ABREU VELHO, H. L., 4016  
 ADAMS, J. A., 3914  
 ADAMS, N. M., 3499  
 ADAMS, R. E., 3479  
 ADSUAR, J., 4020  
 AGARWALA, S. C., 3574, 3575  
 VAN AGGELEN-BOT, G. M., 4080a  
 [AGRICULTURAL DEPARTMENT S. AUSTRALIA], 3522  
 AGRICULTURAL IMPROVEMENT COUNCIL, 4103  
 AGRONOMY DEPARTMENT VIRGINIA POLYTECHNIC INSTITUTE, 3725  
 AĪZENŠTAT, JA. S., 3643  
 ALAMERCERY, J., 3194  
 ALBROOK, R. L., 3818  
 ALCARAZ MIRA, E., 3752  
 ALDRICH, D. G., 3963a  
 ALDRICH, R. J., 3500, 3540, 3545, 3559o  
 ALI-ZADE, M. A., 4072  
 ALLEN, J. M., 3970  
 ALLMENDINGER, D. F., 3872  
 ALLNUTT, R. B., 4080b  
 AMARAL, J. D., 3239  
 DO AMARAL, J. F., 3671  
 AMSTERDAM, ROYAL INSTITUTE FOR THE TROPICS, 4104  
 AMY, A. S., 3644  
 ANALYTICAL MEASUREMENTS, INC., 3222  
 ANDRADE, A. C., 3711, 4062  
 ANDRÉN, F., 3396  
 ANIŠČENKO, N. F., 3744  
 ANJOU, K., 3312a  
 ANLEY, G., 4081  
 ANON., 3352, 3371, 3385, 3389, 3468, 3520, 3559a, 3561, 3564, 3605, 3641, 3646, 3665, 3731, 3734, 3757, 3763, 3765, 3766, 3768, 3795, 3811, 3813, 3831a, 3831b, 3831c, 3845, 3954, 3963b, 3963c, 3985, 3987, 4025, 4049, 4066, 4080c  
 ANSIAUX, J. R., 3228q  
 ANTIGNINI, J., 3527, 3553  
 ARAUJO, R. L., 4080d  
 ARCENEUX, C. J., 3492b  
 ARCHIOVSKAJA, E. V., 3951  
 ARENDS, G., 4082  
 ARMSTRONG, W. D., 3418  
 ARMY, T. J., 3180  
 ARNAUD, G., 3492c  
 ARNDT, E., 3295  
 ARNON, D. I., 3160  
 ARONOVSKY, S. I., 3229a, 3792  
 ARREGUIN, B., 3822  
 ARRILLAGA, N. G., 3804  
 ARROYO B., C., 3996, 4001  
 DE ARRUDA VEIGA, A., 3896  
 ASEN, S., 3890  
 ASKEW, H. O., 3785  
 ASQUITH, D., 3424  
 ATKINS, E. L., Jr., 3943  
 ATTIA, M. S., 3674a, 3674b  
 AUSTRALIA CANNED FRUIT BOARD, 4153a  
 AUSTRALIA, COMMONWEALTH DRIED FRUIT CONTROL BOARD, 4105  
 AUTUORI, M., 3443  
 AVELLANEDA, M., 3286  
 A.V.R.O.S., 4106  
 AXELROD, B., 3743  
 AYERS, T. T., 3608  
 BACKUS, R. C., 3762h  
 BACON, C. W., 3741  
 BAGGE, H., 3816, 3817  
 BÄGGLI, W., 3231  
 BAĬKOV, G. K., 3326  
 BAINES, R. C., 3934  
 BAKER, K. F., 3864  
 BAKER, R. S., 3171, 3172  
 BAKKER, M., 3572  
 BALDACCI, E., 3492d  
 BANGA, O., 3674c  
 BANN, J. M., 3481  
 BARKER, B. T. P., 3312b  
 BARKER, J., 3721  
 BARNES, H. V., 3970  
 BARNES, W. C., 3582  
 BARRONS, K. C., 3508, 3513  
 BARTHOLOMEW, E. T., 3948  
 BARTLETT, B. R., 3963d  
 BARTON, L. V., 3525  
 BASCOM, B. A., 4057  
 BATES, G., 4052  
 BATJER, L. P., 3291  
 BAWDEN, F. C., 3745  
 BEACH, G., 3846  
 BEACH, W. S., 3733  
 BEAN, R. C., 36741  
 BEATTIE, J. H., 3604  
 BEATTY, R. H., 3559b, 3559c  
 BEAUMONT, A., 3674d, 3916b, 3916c, 3916d, 3916e  
 BECKHAM, C. M., 3439  
 BEECH, F. W., 3312c  
 BEESON, K. C., 3204  
 BEEVERS, H., 3868  
 BEGAČEVA-MUHINA, V. A., *see* MUHINA  
 BEINHART, E. G., 3762a  
 BEJUKI, W. M., 3512  
 BELL, R. C., 3318  
 BELL, S. A., 3963e  
 BELL, T. A., 3579  
 BENNET-CLARK, T. A., 3178  
 BENNETT, C. W., 3662  
 BERCKS, R., 3701, 3703  
 BERG, J., 4083  
 BERGMANN, M. E., 3762b, 3762c  
 BERMAN, I., 3286  
 BERNARD, J., 3441  
 BERNAUX, P., 3724i  
 BERRY, L. J., 3674y  
 BERTOSSI, F., 3482, 3759  
 BESS, H. A., 3669  
 BEVAN, W. J., 3875  
 BHASIN, M., 3814  
 BIALE, J. B., 3952  
 BIBBEY, R. O., 3544  
 BIEDERMANN, H., 3276  
 BING, A., 3857  
 BINKLEY, A. M., 3686  
 BISHOP, C. J., 3454  
 BISHOPP, F. C., 3719  
 BITTERS, W. P., 3931  
 BLACKMAN, G. E., 3503  
 BLAIR, D. S., 3233  
 BLASENKO, I. A., 3929  
 BLIN, H., 3629  
 BLUHM, C. R., 3843  
 BLUMER, S., 3383, 3492e, 3906  
 BOCZKOWSKA, M., 3713  
 BODE, O., 3700  
 BODMER, H., 3897  
 BOGOR BOTANIC GARDENS, 4151  
 BOLLI, M., 3175  
 BOLOGNA, LABORATORIO SPERIMENTALE DI PATOLOGIA VEGETALE, 4107  
 BÖMEKE, H., 3297  
 BONCOMPAGNI, T., 3724a  
 BONNER, J., 3822  
 BONNET, J., 3783  
 BONTKOE, M. A., 3796  
 BOOCK, O. J., 3718  
 BOOTH, V. H., 3619, 3620  
 BORBOLLA, M. DE LOS A. C. DE R. DE LA, 3228a  
 BORBOLLA Y ALCALÁ, J. M. R. DE LA, 3228a  
 BORGSTRÖM, G., 3312d  
 BORJA CARBONELL, J., 3312d  
 BORZINI, G., 3399  
 BOSSARD, R., 3832  
 BOTANIC GARDENS, BOGOR, INDONESIA, 4151  
 BOTTGER, G. T., 3941  
 BOUCHARD, R. J. A., 3720  
 BOUHÉLIER, R., 3674e  
 BOULD, C., 3315, 3363  
 BOUQUET, A., 3764  
 BOWDEN, R. A., 3361, 3863

- BOYCE, A. M., 3935  
 BOYCE, J. H., 3916f  
 BOYCE, W. R., 3776  
 BOYNTON, D., 3234, 3279  
 BRADFORD, G. R., 3963a  
 BRANDT, C. S., 3204  
 BRAUN, H., 3704  
 BREAZEALE, E. L., 3201  
 BREAZEALE, J. F., 3201  
 BREIDBACH, —, 3340  
 BREŽNEV, D. D., 3643  
 BRIAN, P. W., 3452  
 BRILLIANT, V. A., 4068, 4069  
 BRITISH COLUMBIA DEPARTMENT  
 OF AGRICULTURE, 4109  
 BRITISH COLUMBIA DEPARTMENT  
 OF AGRICULTURE (STATISTICS  
 BRANCH), 4153b  
 BROADBENT, L., 3626  
 BRONSON, T. E., 3568, 3593  
 BROOKE, J., 4084  
 BROWN, G. B., 3617  
 BROYER, T. C., 3179  
 VAN DEN BRUEL, W. E., 3441  
 BUCK, G. J., 3888  
 BUCKLEY, T. A., 3533  
 BUDAGOVSKIĭ, V. I., 3255  
 BUDNICKAJA, E. V., 3156  
 BUDOWSKI, P., 4015  
 BULLOCK, J. F., 3741  
 BÜNNING, E., 3228b  
 BUREAU OF AGRICULTURAL ECO-  
 NOMICS, U.S. DEPARTMENT  
 OF AGRICULTURE, 3563  
 (BUREAU OF PLANT INDUSTRY),  
 4110  
 BURGESS, A. H., 3789, 3791  
 BURGOS, J. C., 3911  
 BURGOS, J. J., 3228c  
 BURKHART, L., 3322  
 BURNS, R. E., 3738  
 BURRIS, R. H., 3166  
 BURROUGHS, L. F., 3312e  
 BUSHNELL, J., 3631  
 BUŠIN, P. M., 3344  
 BUSTINZA, F., 3492f  
 BUZOVER, F. JA., 3692  
 BYNOV, F. A., 3735  
 BYRDE, R. J. W., 3395  
  
 CABBALLERO LOPEZ, C., 3839  
 ČAĻAHJAN, M. H., 3176  
 CALDWELL, J., 3850  
 CALVIN, M., 3228k  
 CALZECCHI-ONESTI, A., 3767  
 DE CAMARGO, R., 4002  
 CAMPACCI, C. A., 3623  
 CANETTO, M., 3833  
 CANN, H. J., 3972  
 DE CAPITTE, L., 3209  
 CARIBBEAN COMMISSION, 4153c  
 CARLSON, A. E., 3529  
 CARLSON, E. C., 3596  
 CARLSON, R. F., 3559d, 3559e  
 CARMAN, G. E., 3948  
 CARON, A. G., 3718  
 CARRANZA, J. M., 3902  
 CARVALHO, A., 3999  
 CASSERES, E. H., 3584  
 CASTILLO, C. M., 3997  
 CASTRO REGO, Z. P., 3237  
 CASTRONOVO, A., 3657  
 CATCHPOLE, N., 4085  
 CATLOW, E., 3315  
  
 CAYEUX, L., 3861  
 ČELIŠČEV, S. P., 3196  
 CERCOS, A. P., 3455  
 ČERNENKO, E. S., 3161, 3566  
 CHAKRABARTY, M. M., 3819  
 CHALLINOR, S. W., 3312c, 3312e  
 CHALMIN, M., 3779  
 CHANDA, S. K., 3312f  
 CHANDLER, C., 3988  
 CHANDLER, W. H., 4086  
 CHAO, T. T., 3228d  
 CHATER, G. P., 3788  
 CHEN, M. C., 4041  
 CHEN, M. T., 4063  
 CHEN, S. L., 3198  
 CHEN, T. H., 3831n  
 CHENG, C. F., 4041  
 CHESTERS, C. G. C., 3228e  
 CHIARELLI DE GAHAN, A., 3436  
 CHILDERS, N. F., 3312h, 3560  
 CHILTON, S. J. P., 4058  
 CHISHOLM, R. D., 3492g  
 CHITWOOD, G. B., 3407  
 CHOUARD, P., 3168, 3169, 3170,  
 3228f, 3228g, 3228h  
 CHOUDHURY, B., 3576  
 CHOWDHURY, S., 4021  
 CHRIST, E. G., 3312h  
 CHRISTIE, J. R., 3569  
 CHU, H. T., 4060  
 CIFERRI, R., 3374, 3381, 3482,  
 3754, 3759, 3975, 3984  
 ČIRIKOV, JU. F., 3806  
 [CITRUS FRUIT ADVISORY COM-  
 MITTEE], 3921  
 CLARK, H. E., 3509  
 CLAUSEN, C. P., 3460  
 CLAVER, F. K., 3193  
 CLENDENNING, K. A., 3229 1  
 CLOTHIER, G. E., 3228i  
 COATON, W. G. H., 3492h  
 COBB, J. S., 3559f  
 COCHRAN, W. G., 4087  
 COCK, R. E., 3506  
 COELHO DE SOUZA, W. W., 4004,  
 4006  
 COLLINS, J. C., 3732  
 COLLINS, J. L., 4022  
 COLORADO-WYOMING ACADEMY  
 OF SCIENCE, 4111  
 COMMONWEALTH DRIED FRUIT  
 CONTROL BOARD, AUSTRALIA,  
 4105  
 CONGRÈS POMOLOGIQUE DE  
 FRANCE, 4112  
 CONNECTICUT AGRICULTURAL EX-  
 PERIMENT STATION, STORRS,  
 4153d  
 CONNOR, H. E., 3499  
 CONTARDI, H. G., 3347, 3348  
 CONWAY, T., 3492i  
 COOK, H. T., 3953  
 COOK, R. L., 3836, 3840  
 COOPER, J. F., 3936  
 COPPENS, R., 3783  
 CORNELL UNIVERSITY AGRICUL-  
 TURAL EXPERIMENT STATION,  
 4113  
 CORNMAN, J. F., 3543  
 CORREA DE S. CASTELO BRANCO,  
 A., 3264  
 CORRELL, D. S., 4088  
 CORRIN, W. R., 3596  
 COSTA, A. S., 3932  
  
 COULTER, L. L., 3508  
 COUTU, A. J., 3761  
 COUWENBERG, J. F., 4075  
 COX, C. E., 3916g  
 COX, G. M., 4087  
 COX, R. S., 3909  
 C.P.V. EXPERIMENT STATION,  
 INDONESIA, 4114  
 CRAFTS, A. S., 3228j, 3514  
 CRANG, A., 3306  
 CRENSHAW, J. L., 3674y  
 CRIPPS, E. G., 3784  
 CRITCHFIELD, H. J., 3777  
 CRITTENDEN, H. W., 3602  
 CROSS, C. E., 3534  
 CROSSA-RAYNAUD, P., 3235  
 CROSSLEY, A., 3815  
 ČUHO, D. F., 3355  
 CUNY, L., 3916h  
 CURRIER, H. B., 3514  
 CURTIS, O. F., Jr., 3535, 3536  
 CUTHBERTSON, J. D., 3270  
 CUTRIGHT, C. R., 3426, 3444  
  
 DABRAL, S. N., 3831e  
 DALE, W. T., 4059  
 DALLYN, S. L., 3559g  
 DANIELSON, L. L., 3539  
 DANIELSSON, B., 3248  
 DARK, S. O. S., 3781  
 DARLOT, A., 3220  
 DARPOUX, H., 3831f  
 DAS GUPTA, N. N., 4080e  
 DAVID, A., 3485  
 DAVIDSON, O. W., 3890  
 DAVIES, D. A., 3227  
 DAVIES, J. N., 3580  
 DAVIS, B. H., 3559b  
 DAVIS, M. B., 3233  
 DAVISON, J. R., 3308  
 DAVYDOV, P. N., 3458  
 DAY, B. E., 3514  
 DE, M. L., 4080e  
 DEAN, R. W., 3429  
 DEARBORN, C. H., 3550  
 DEBACH, P., 3940, 3942, 3946  
 DECKER, G. C., 3481  
 DE LOTTO, G., 3919  
 DELPERÉE, R., 3219  
 DENNETT, R. K., 3674f  
 DEOGUN, P. N., 3809  
 DEPARTMENT OF AGRICULTURE  
 FOR SCOTLAND, 3492i  
 DEROSE, H. R., 3559h  
 DEX, H. G., 3163  
 DEVER, D. A., 3438  
 DEWEY, A. W., 3761  
 DEWEY, D. H., 3625  
 DHAR, D. C., 3799  
 DHAR, M. L., 3799  
 DICKINSON, J., 3880  
 DICKSON, R. C., 3963f  
 DIETRICK, E. J., 3940, 3946  
 DIMITRI, M. J., 3853  
 DIMOCK, A. W., 3859, 3864  
 DIMOND, A. E., 3195  
 VAN DINTHER, J. B. M., 3410  
 DIVISION OF WEED INVESTIGA-  
 TIONS, U.S. DEPARTMENT OF  
 AGRICULTURE, 3495  
 DODDS, H. H., 4080f  
 DOMINIK, T., 3284  
 DOMROVSKAJA, M. V., 3929  
 DOOLITTLE, S. P., 3604



- DOORENBOS, J., 3916i, 3916j  
DOROUGH, G. D., 3228k  
DORST, J. C., 4153e  
DOUTT, R. L., 3884  
DOZIER, B. H., 3427  
DRIED FRUITS PROCESSING COMMITTEE, 3309  
DRIGGERS, B. F., 3434  
DU CHANNOIS, F. R., 3433  
DUDLEY, J. E., Jr., 3593  
DUNN, E., 3724h  
DUNN, J. A., 3594  
DUPOUY, L., 3585  
VAN DUUREN, A. J., 3797  
DUVAL, G., 3773  
DYE, S. L., 3211
- EADIE, W. R., 3447  
EAST AFRICAN AGRICULTURE AND FORESTRY RESEARCH ORGANIZATION, 4115  
EASTWOOD, H. W., 3972  
EASTWOOD, T. M., 3891  
EBES, K., 3979  
EDELMAN, C. H., 4089  
EDGERTON, L. J., 3236, 3298  
EDINBURGH SCHOOL OF AGRICULTURE, 4153f  
EDWARDS, E. E., 3875  
EDWARDS, G. R., 3667  
EGOROVA, V. I., 3266  
EHRENHARDT, H., 3420, 3851  
EIDE, P. M., 3571  
EIDELJNANT, N. M., 3606  
ELAGIN, I. N., 3312g  
ELLENGORN, J. A. E., 3164  
ELLIOTT, R., 3969  
ELLISON, J. H., 3557  
VAN EMDEN, J. H., 3977, 4070  
EMERSON, O. H., 3963g  
EMSWELLER, S. L., 3916k  
ENGEL, R. E., 3545  
ENGLISH, L. L., 3849, 3894  
ENTOMOLOGICAL BRANCH, DIVISION OF SCIENCE SERVICES, N.S.W. DEPARTMENT OF AGRICULTURE, 3944, 4153g  
EPPS, W. M., 3582  
EPSTEIN, E., 3649  
EREMEEV, G. N., 3928  
ERNST, A. J., 3792  
ESDORN, I., 3802  
ETCHELLS, J. L., 3579  
EVDOKIMOVA, T. P., 3196, 3197  
EVERETT, P., 3956  
EVERIST, S. L., 3559i  
EVREINOFF, V. A., 3243  
EVREINOFF, [V. A.], 3354  
EYRE, P. W., 4101  
EZELL, B. D., 3639
- FAGER, E. W., 3165  
FAIRBAIRN, J. W., 3798  
FANKUCHEN, I., 3762c  
FARLEY, A. J., 3312h  
FEDOROV, A. A., 3907  
FEDOROV, M. V., 3174, 3587  
FEINSTEIN, L., 3730, 3758, 3762d  
FERAUGE, M. T., 3357a  
FERNOW, K. H., 3682  
FERRAGUTI, A., 3370  
FERRER, R., 3516  
DE FIGUEIREDO, E. R., Jr., 3412
- FIJI DEPARTMENT OF AGRICULTURE, 4153h  
FINN, T. P., 3549  
FISCHER, H., 3492j  
FISHER, D. J., 3157  
FISHER, T. W., 3963d  
FISHER-WEBSTER, K., 3964  
FITZPATRICK, R. E., 3387  
FLEMION, F., 3770, 3771  
FLESCHNER, C. A., 3940, 3946  
FLOCK, R. A., 3963f  
FLUKE, C. L., 3438  
FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, WASHINGTON, 4035  
FORSTER, W. A., 3651  
FOSTER, A. C., 3478  
FOURY, M., 3253  
FRANCK, J., 3165  
FRANK, E. M., 3211  
FRANKLIN, H. J., 3417  
FRAZIER, N. W., 3388  
FREEMAN, J. A., 3618  
FREI, E. H., 3224  
FREIBERG, S. R., 3509  
FREW, S., 3218  
FREZAL, P., 3390  
FRIEDSDORF HORTICULTURAL RESEARCH STATION, 4116  
FRITZSCHE, R., 3292  
THE FRUIT GROWER, 4117  
FUCHS, H., 3848  
FULMER, R. S., 3492x  
FULTON, H. G., 3674g  
FULTON, R. A., 3852, 3883, 3885
- GAFFRON, H., 3165  
GALSTON, A. W., 3171, 3172  
GANGOLLY, S. R., 4012  
GARCÉS O., C., 3228 l, 3358, 3682  
GARCIA, R. C., 3446  
GARDNER, R., 3686  
GARDNER, V. R., 4090  
GARTON, J. E., 3490  
GASTON, H. P., 3299  
GAYFORD, G. W., 3312i  
GEERING, J., 3383  
GEERING, Q. A., 3594  
GENTILE, G., 3312j  
GEORLETTE, R., 3228m, 3570  
GERSTEIN, L. A., 3803, 3959  
GIANFAGNA, A. J., 3891  
GIBB, J. A. C., 3788  
GIDDINGS, N. J., 3662  
GIGANTE, R., 3753  
GILBERT, S. G., 3960  
GILL, R. F., 3158  
GILMORE, A. E., 3249  
VAN GILS, G. E., 4029  
GIORDANO, B., 3312k  
GIRAUD, E., 3762e  
GISEVIUS, R., 3265  
GJAERUM, H. B., 3394  
GLENDENNING, R., 3674g  
GODDARD, J. H., 4091  
GODNEV, T. N., 3280  
GODOY, C., Jr., 3958  
DE GODOY PASSOS, H., 4080g  
GOKHALE, N. G., 4080h  
GOLDIN, M. I., 3660  
GOLDJINA, S. M., 3826  
GONGGRIJP, J., 3519  
GONZÁLEZ, C. A., 4008  
GONZÁLEZ O., C., 3996
- GOOD, H. M., 3831g  
GOODCHILD, N. E., 3526  
GOODEY, J. B., 3874  
GORTER, C. J., 3656  
GOSSWEILER, J., 4080i  
GOTTLIEB, D., 3456  
GRANHALL, I., 3366  
GRANICK, S., 3228n  
GRANT, T. J., 3932  
GRAU, F. V., 3559j  
GREČUŠNIKOV, A. I., 3709, 3710  
GREEN, R. J., 3807  
GREENWOOD, M., 3980  
GRIFFITHS, J. T., 3947  
GRIGSBY, B. H., 3542  
GRONINGEN AGRICULTURAL RESEARCH STATION AND SOIL SCIENCE INSTITUTE, T.N.O., 4118  
GROSS, C. R., 3302  
GROSSBARD, E., 3450  
GROVES, A. B., 3401  
GUNCKEL, J. E., 3916r, 3916s  
GUPTA, S. S., 3812  
GUYER, R. B., 3589
- DE HAAN-HOMANS, L. N. S., 4029, 4030  
HAFENRICHTER, A. L., 3345  
HAGEDORN, D. J., 3674h  
HAGMANN, K., 3414, 3577  
HAHN, P., 3556  
HALL, C. B., 3674i  
HALLIDAY, D. J., 3503  
HALSEY, L. H., 3654  
HAMNER, C. L., 3194  
HAMNER, K. C., 3229f  
HAMPTON, R. N., 3695  
HANF, M., 3559k  
HANNAN, P. J., 3730, 3758  
HÄNNINEN, P., 3228o  
HANSCH, C., 3228z  
HANSEN, H. R., 3359  
HANSON, C., 3462  
HAO, C., 4045  
HARDY, D. E., 3492k  
HARDY, E., 3772  
HARLER, C. R., 4065, 4080j  
HARRINGTON, A. H., 3818  
HARRIS, G. H., 3618  
HARRIS, G. S., 3913  
HARRIS, W. B., 3362  
HARRISON, A. L., 3662  
HARTMAN, J., 3674i  
HARTLEY, G. S., 3492 l  
HARTSEMA, A. M., 3876  
HATFIELD, M. R., 3706  
HAUMAN, L., 4092  
HAUN, J. R., 3904  
HAUSCHILD, I., 3698  
HAUSZER, K., 3228p  
HAVIS, A. L., 3407  
HAVIS, J. R., 3541  
HAYFRON, R. J., 3980  
HAYTER, C. N., 3616, 3672  
HEIBERG, B. C., 3402  
HEIM, R., 4010  
HEINZE, K., 3380  
VAN HELL, W. F., 4074, 4106  
HELSON, G. A. H., 3717  
HEMPHILL, D. D., 3357b, 3538  
HENDERSON, R. G., 3762f  
HENDERSON, V. E., 3724b  
HENDRICKX, A., 3887

- HENDRIX, J. W., 3841, 3842  
 HENRIET, J., 35591  
 HERNANDEZ, T. P., 3507, 3555  
 HERRE, H., 4094  
 HERRERO, J., 3251, 3259  
 HESLEP, J. M., 3624  
 HEUBERGER, J. W., 3712  
 HEWITT, E. J., 3203, 3574, 3652, 3674j  
 HEY, G. L., 3187, 3188  
 HIBBARD, A. D., 3357b  
 HIDALGO FERNÁNDEZ-CANO, L., 3339  
 HIGGINS, K. B., 3285  
 HILDITCH, T. P., 3812, 3815, 3819  
 HILDRETH, A. C., 3895  
 HILGEMAN, R. E., 3930  
 HILKENBÄUMER, F., 3254  
 HILL, C. H., 3439  
 HILL, H. E., 3314  
 HILLENBRAND, E. F., Jr., 3492m  
 HINSELMANN, M., 3397  
 HINTZE, S., 3674v  
 HIRSHFELD, F. L., 3224  
 HIRST, E. L., 3312f, 3831h  
 HITCHCOCK, A. E., 3184, 3189, 3294, 3551, 3886  
 HOARE, E. R., 3867  
 HOCHAPPEL, H., 3250  
 HODGE, W. H., 3673, 4017  
 HOFFEELMAN, H., 4080u  
 HOFF, P. R., 3695  
 HOFFMAN, M. B., 3234, 3291, 3298  
 HOFFMANN, A., 3428  
 HOFFMANN, P., 3404  
 HOFMASTER, R. N., 3539  
 HOGSETT, J. N., 3492m  
 HOLMES, E., 3498  
 HOMES, M. V., 3228q  
 HOOGHOUTD, S. B., 3684  
 HOPF, P. P., 3187, 3609  
 HOPKINS, J. C. F., 3676  
 HORN, E. F., 3995  
 HORTON, F. F., 3857  
 HOTCHKISS, J. E., 3525  
 HOTIN, A. A., 3808  
 HOUGH, W. S., 3439, 3483  
 HOUGHOUTD, S. B., 3684  
 HOWARD, H. W., 3630  
 HOWLAND, A. F., 3668  
 HUCKETT, H. C., 3597  
 HUECK, H. J., 3492n  
 HUFFAKER, C. B., 3408  
 HUGHES, C. G., 4039  
 HUGHES, H., 4093  
 HULME, A. C., 3304  
 HUMMEL, F. C., 3228f  
 HUMMER, R. W., 3513  
 HUNTER, J. A., 3217  
 HUNZIKER, A. T., 3674k  
 HUTCHINSON, P. B., 4059  
 IDE, L. E., 3589  
 ILLINOIS AGRICULTURAL EXPERIMENT STATION, 4119, 4120, 4121  
 INDIAN COUNCIL OF AGRICULTURAL RESEARCH, 4122  
 INDONESIA, C.P.V. EXPERIMENT STATION, 4114  
 I.N.E.A.C., 4123  
 INGLEZ DE SOUSA, J. S., 3329  
 I.R.S.I.A., BELGIUM, 4124  
 ISENBERG, F. M. R., 3611, 3674p  
 ISHIDA, J., 3969  
 IVANOV, S. M., 3961, 3962  
 IVANOV, V. V., 3603, 3830  
 IVANOVA, B. I., 3961  
 IYENGAR, C. V. K., 4047  
 JACKS, H., 3217  
 JACOB, W. C., 3552, 3557, 3690  
 JACOBONI, N., 3289  
 JACOBS, H., 3831i  
 JACOBSEN, H., 4094  
 JACOBSON, L., 3210  
 JACQUES-FÉLIX, H., 4011  
 JACYNINA, K. N., 3664  
 JAGENDORF, A. T., 3743  
 JAIN, N. L., 4076  
 JAKOVLEVA, N. N., 3709, 3710  
 JAMES, W. O., 3868  
 JAMISON, F. S., 3654  
 JANAKI AMMAL, E. K., 3182, 39161  
 JANCKE, O., 3440, 3470, 3472  
 JARRETT, R. M., 3288  
 JEATER, J. G., 3972  
 JEFFERS, W. F., 3636  
 JENSEN, D. D., 3879  
 JOHANSSON, E., 3242, 3320  
 JOHNSON, A. T., 3901  
 JOHNSON, F., 3872  
 JOHNSON, M. M., 3963f  
 JOHNSTON, S., 3357c, 3357d  
 JOHNSTONE, F. E., Jr., 3631  
 JONES, E. W., 3652, 3689  
 JONES, I. D., 3579  
 JONES, M. A., 3804  
 JONES, W. W., 3926  
 JORDAN, R., 3273  
 JUDKINS, W. P., 3323  
 JUNTA NACIONAL DAS FRUTAS, LISBON, 3349  
 K., G., 3215  
 KACNELJSON, S. M., 3650  
 KALBFLEISCH, W., 3228s  
 KALINKEVIČ, A. F., 3825  
 KAMP, J. R., 3843  
 KANDLER, O., 3213  
 KARNATZ, H., 3252, 3268, 3269  
 KASTING, R., 3848  
 KATZNELSON, H., 3393  
 KEARNS, H. G. H., 3421, 3489, 3491  
 KEEN, B. A., 3967  
 KELLENBARGER, S., 3818  
 KELLER, K. R., 3782  
 KEMMER, E., 3274  
 KENDALL, L., 3306  
 KENNARD, W. C., 3317  
 KENYA HIGH LEVEL SISAL RESEARCH STATION, THIKA, 4126  
 KENYA, SENIOR AGRICULTURAL OFFICER, 4125  
 KERHARO, J., 3764  
 VAN DER KERK, G. J. M., 3457  
 KERLING, L. C. P., 3916m  
 KERR, T. W., Jr., 3912  
 KESSLER, H., 3310, 3486  
 KEVORKIAN, A. G., 3670, 3983  
 KEYWORTH, W. G., 3786  
 KIDD, F., 3303  
 KIELY, T. B., 3933  
 KIESER, M. E., 3305, 3316  
 KING, F. C., 4095  
 KING, L. J., 3511, 3549  
 KING, N. J., 4040  
 KIRKPATRICK, H., Jr., 3294, 3551  
 KISAKÜREK, H., 3325  
 KLANG, C. A., 3232  
 KLEČKOVSKII, V. M., 3196, 3197  
 KLEIN, R. M., 3190  
 KLEŠNIN, A. F., 3173  
 KLINGBEIL, G. C., 3480  
 KLINKOWSKI, M., 3702  
 KLÖPPING, H. L., 3457  
 KLOSTERMEYER, E. C., 3674i  
 KLOSTERNEUBURG HORTICULTURAL COLLEGE AND RESEARCH STATION, AUSTRIA, 4127, 4152  
 VAN DER KNAAP, W. P., 4080k  
 KNAPPSTEIN, R. O., 3357e  
 KOCH, L. W., 3755  
 KÖHLER, E., 3751  
 KONECKY, M. S., 3852  
 KOOLHAAS, D. R., 3831i  
 KOPAC, M. J., 3225  
 KOPETZ, L. M., 3683  
 KORČAGIN, A. A., 3900  
 KOSSWIG, W., 3581  
 KOSTIUK, A. N., 3342  
 KOTELINIKOVA, A. V., 3693  
 KOTTE, W., 3384, 3492o  
 KOVACHE, A., 3466  
 KOZLOWSKI, T. T., 3180  
 KRAMER, A., 3589  
 KRAMER, J. A., Jr., 3511  
 KRAMER, M., 3559m  
 KRAUS, G., 3341  
 (KRAUS, J., editor), 4152  
 KRETOVIČ, V. L., 3910  
 KRISTER, C. J., 3477  
 KRITSKAJA, L. M., 3293  
 KROMDIJK, G., 3855  
 KRONE, P. R., 3559d  
 KRÜSSMANN, G., 3238, 4083  
 KRÜŽILIN, A. S., 3647  
 KULAKOVSKAJA, T. H., 3824  
 KULIEV, A. M., 3228t  
 KUMAR, V., 4019  
 KUNKEL, R., 3686  
 KURSANOV, A. L., 4067  
 KUZYMIN, A. JA., 3336  
 L., G. K., 3262  
 LABORATORIO SPERIMENTALE DI PATOLOGIA VEGETALE, BOLOGNA, 4107  
 LACHMAN, W. H., 3554, 3559n  
 LACKEY, C. F., 3663  
 LAGAUDE, V., 3260  
 LAI, T. M., 4051  
 LAL, K. N., 4055  
 LAMBERT, E. B., 3608  
 LAMBOUR, M. R., 3922  
 (LANDBOUWORGANISATIE T.N.O. GRONINGEN), 4118  
 THE LAND SETTLEMENT ASSOCIATION LTD., 4153i  
 LANGE, W. H., Jr., 3596  
 LANGENBUCH, R., 3714  
 LANGFORD, G. S., 3427  
 LANING, E. R., Jr., 3559o  
 LARIONOVA, A. A., 3923  
 LAROCHAS, L., 40801  
 LARSEN, P., 3186  
 LARSON, C., 3687  
 LARSON, R. E., 3856  
 LATUS, M., 3194

- LAWES AGRICULTURAL TRUST,  
ROTHAMSTED, 4139, 4140  
LAYCOCK, D. H., 4071, 4073  
LEDESMA, N. R., 3372, 3373  
LEE, L. S., 4050  
LEE, S., 4048  
LEEFEE, J. S., 3559p  
LEFORTAIN, M., 3769  
LEIB, E., 3716  
LEIGHTY, W. R., 3741  
LEMMON, P. E., 3345  
LEONTJEVA, JU. A., 3406  
LEUPEN, F. F., 4000  
LEVIN, J. H., 3299  
LEVITT, J., 3228u, 3365  
LEWIS, C. A., 3869  
LEWIS, C. E., 3916g  
LEWIS, D., 3181  
LHOSTE, J., 3609  
LI, I. C. R., 3782  
LIHNELL, D., 3367, 3854  
LIMASSET, P., 3492p, 3750  
LIN, K. S., 4048  
LINDER, P. J., 3504  
LINDHARDT, K., 3838  
LINEBERRY, R. A., 3322  
LING, L., 3501  
LINK, C. B., 3904  
LINK, G. K. K., 3190  
LINSKENS, H. F., 3228v  
LIYANAGE, D. V., 3991  
LJONES, B., 3321, 3364, 3375  
LJADDIS, C., 4080m  
LOCSIN, C. L., 4038  
LOEWEL, E. L., 3398  
LOH, C. S., 4046  
LOHMMEYER, V. K.), 3899  
LOHNIS, M. P., 3207  
LONG ASHTON AGRICULTURAL  
AND HORTICULTURAL RE-  
SEARCH STATION, 4128  
LORENZINI, C., 3724a  
LOU, T. C., 3798  
LOUSTALOT, A. J., 3516, 3523  
LUCETTI, G., 3282, 3400  
LÜCHOW, G., 3986  
LUCKWILL, L. C., 3278  
LUDLOW, F., 3860  
LUNDEGÅRDH, H., 4096  
LUYTEN, I., 3876  
LYKIN, L. A., 3335  
LYNCH, L. J., 3586  
LYON, A. G., 3630  
LYONS, J. E., 3453  
  
MCALPIN, D. M., 3411  
McCABE, E. T., 3370, 3762d  
MACCANTI, M., 3400  
McCLEAN, A. P. D., 3661  
McCLELLAN, W. D., 3893  
McCOLM, E. M., 4024  
McCOMB, E. A., 3634  
McCREADY, R. M., 3949  
MacDONALD, R. E., 3454  
MacFARLANE, E. W. E., 3228w  
McGEORGE, W. T., 3201  
MACHERAUCH, O., 3267  
McILROY, R. J., 3831j  
McILVAINE, T. C., 3736  
McKINNEY, H. H., 3748  
MACLAY, W. D., 3949  
McLEOD, W. S., 3492q  
MacNEAR, B. I., 3770  
MACSELF, A. J., 4099  
  
MADSON, B. A., 3345  
MAIER, E. A., 4056  
MAJEWSKI, K., 3780  
MALAYA DEPARTMENT OF AGRI-  
CULTURE, 4129  
MALAYA RUBBER RESEARCH INSTI-  
TUTE, 4033, 4130  
MALLIK, P. C., 4013  
MALLINOUD, H., 3492r, 3492s  
MANDEL, K., 3927  
MANITOBA DEPARTMENT OF AGRI-  
CULTURE, 4153j  
MAPSON, L. W., 3721  
MARAMOROSCH, K., 3223  
MARCELLI, E., 3524  
MARIMAN, G., 3331  
MARINUCCI, M., 3312 i  
VAN MARLE, G. S., 3837  
MARSH, R. W., 3395, 3464  
MARSHALL, A., 3674i  
MARTÍNEZ CROVETTO, R., 3546  
MARZOCCA, A., 3918  
MASSACHUSETTS AGRICULTURAL  
EXPERIMENT STATION, 4131  
MAŠTAKOV, S. M., 3824, 3826  
MATTHEWS, E. M., 3760  
MATTHEWS, L. J., 3530  
MATTHEWS, R. E. F., 3747  
MAURER, K. J., 3257  
MAYER, A., 3476  
MAYEUX, H. S., 3615  
MAZAEVA, M. M., 3206  
MAZZARELLA, P., 3221  
MAZZEI PATRONE, I., 3405  
MEDVEDEV, P. F., 3827  
MELLOR, F. C., 3387  
MENDES, C. T., 4003, 4007  
MESSING, A. M., 3228w  
METEOROLOGICAL OFFICE, AIR  
MINISTRY, LONDON, 4132  
MEURMAN, O., 3517  
MICHEL, B. E., 3191  
MICHELbacher, A. E., 3462  
MICHIGAN AGRICULTURAL EXPERI-  
MENT STATION, 4153k  
MIDDELBURG, H. A., 3737  
MIDDLEKAUFF, W. W., 3462, 3600  
MIDDLETON, J. T., 3858  
MIHAİLOVA, P. V., 3729  
MIHALEV, A. JA., 3647  
MILLER, E. J., 3263  
MILLER, E. V., 3950  
MILLER, L. P., 3771  
MILLER, V. L., 3872  
MILLS, K. S., 3228x  
MINARIK, C. E., 3559q  
MINERBY, G., 3277  
MINISTRY OF AGRICULTURE, LON-  
DON, 3228y, 3492t, 3583  
MIRRADO, J. H. M., 3993  
MISSOURI AGRICULTURAL EXPERI-  
MENT STATION, 4133  
MITCHELL, A. E., 3480  
(MITCHELL, R. L.), 4096  
MITCHELL, R. S., 3586  
(MÖHRING, H. K.), 4116  
MOK, B. C., 4053  
MOLLEM, A., 3790  
MÖLLER NIELSEN, H., 3510  
MONK, R. J., 3785  
MONTALDO B., A., 3681  
DE MONTGRIEMER, H. A., 3492p,  
3724c, 3750  
MOORE, J. E., 3636, 3638  
  
MOORE, J. F., 3655  
MOORE, R. C., 3541  
MORALES, M. O., 3974  
MOREAU, C., 3989  
MOREAU, M., 3989  
MOREIRA, S., 3932  
MORGAN, D. T., Jr., 3916n  
MORGAN, N. G., 3421, 3489, 3491  
MORGAN, O. D., 3748  
MORRIS, H. J., 3674 l  
MORRISON, W. W., 3324  
MOSSE, B., 3259  
MOULTON, J. E., 3559d, 3559e  
MUHINA-BEĞAČEVA, V. A., 4068,  
4069  
MUHR, G. R., 3632  
MUIR, R. M., 3228z  
MÜLLER, E., 3403  
MÜLLER, H., 3258  
MÜLLER, H. W. K., 3414, 3577  
MÜLLER-STOLL, W. F., 3333  
MULLISON, W. R., 3508  
MUNCIE, J. H., 3706  
MUNDINGER, F. G., 3425  
MUNGER, H. M., 3674a  
MUNGOMERY, R. W., 4037, 4042  
MURAKISHI, H., 3841, 3842  
MURPHY, R. G., 3695  
  
NAALDWIJK RESEARCH STATION  
FOR FRUIT AND VEGETABLE  
CULTURE UNDER GLASS, 4134  
NAEZER, H. W., 3740  
NAKAGAWA, Y., 3674m, 3674n,  
3674o  
NATIONAL RESEARCH COUNCIL OF  
CANADA, 4153 l, 4153m  
NATIVIDADE, J. V., 3283, 3287  
NATRASS, R. M., 3705  
NAUMENKO, N. P., 3342  
NAYAR, T. G., 4080n  
NEAL, M. C., 3847  
NEERGAARD, P., 3465  
NEIMAN, M. B., 3828  
NEISWANDER, C. R., 3915  
NELSON, A., 4097  
NELSON, C. D., 3831g  
NELSON, G. H., 3229a  
NEW JERSEY AGRICULTURAL Ex-  
PERIMENT STATION, 4135  
NEW YORK STATE AGRICULTURAL  
EXPERIMENT STATION, 4136  
NEWHALL, A. G., 3614  
NEWTON, G. G., 3451  
NEWTON, W. F., 3515  
NICHOLAS, D. J. D., 3157, 3651  
(NICHOLS, A. F.), 4126  
NICOLINI, J. C., 3391  
NIGERIA AGRICULTURAL DEPART-  
MENT, 4137  
NIKITIN, B. M., 3824  
NISHIDA, T., 3669  
NIXON, Ø., 3153  
NIXON, H. L., 3745  
NIXON, R. W., 3955  
NOBIS, F., 4153n  
NOLL, C. J., 3558, 3562  
NORRIS, W. E., Jr., 3610  
NORTH COOMBS, G. A., 4098  
NORTHCRAFT, R. D., 3212  
NORTH-EAST WOOD CONTROL  
CONFERENCE CO-ORDINATING  
COMMITTEE, 3496



NORTH OF SCOTLAND COLLEGE OF  
AGRICULTURE, 3148  
NOTTAGE, I. L., 3924  
N.S.W. DEPARTMENT OF AGRI-  
CULTURE, ENTOMOLOGICAL  
BRANCH, 3944  
N.S.W. DEPARTMENT OF AGRI-  
CULTURE, ENTOMOLOGICAL  
BRANCH, DIVISION OF  
SCIENCE SERVICES, 4153g  
NUTTER, G. C., 3543, 3547

ODLAND, M. L., 3558, 3562,  
3674p  
L'OFFICE BELGE DU COMMERCE  
EXTÉRIEUR, 3226

OFFICE OF FOREIGN AGRICUL-  
TURAL RELATIONS, U.S.  
DEPARTMENT OF AGRICUL-  
TURE, 4144

OLAFSON, G., 3368  
OLDÉN, E. J., 3149  
OLMSTED, C. E., 3829  
OLSEN, S. R., 3688  
OLSON, R. L., 3674 l  
OPPENHEIMER, C., 3642  
ORCHARD, H. E., 3521, 3528  
ORCHID GROWERS' ASSOCIATION,  
3878

ORDIN, L., 3160  
ORTEGA NIETO, J. M., 3245  
ORTON, E. C., 3350  
OVČAROV, K. E., 3156  
OVERSACQ, J., 3801  
OWEN, O., 3580  
OZEROV, G. V., 3821, 3823  
OZOL, A. M., 3356

PADFIELD, C. A. S., 3301  
PÄHLMAN, A., 3312m  
PAL, B. P., 3677  
PALLERONI, N. J., 3229b  
PAMMER, F., 3229c  
PAPE, H., 3905  
PAREJA, I. E., 3674q  
PARIEVSKAYA, A. P., 3660  
PARKER, E. R., 3926, 3931  
PARPIA, H. A. B., 3353  
PATTERSON, H. D., 3154  
PATTERSON, M. E., 3653  
PATZENHAUER, A., 3820  
PAVLOV, A. N., 3823  
PAZZANESE, F., 4009  
PEARSON, C. E., 3229d  
PEČENICINA, A. M., 3612  
PECK, R. L., 3453  
PEENS, J. F., 3726  
PERCIVAL, E. G. V., 3312f  
PERRY, A. L., 3720  
PERRY, V. G., 3569  
PESSANHA, M. V. T., 3965  
PETRAHILEV, I. M., 3275  
PETROČENKO, E. I., 3715, 3722  
PEW, W. D., 3653  
PHILIPPINES DEPARTMENT OF  
AGRICULTURE, 4138

PICCO, D., 3413  
VAN DER PIJL, L., 3916o  
PIMENIDES, A. C., 3347, 3348  
PIOT, R., 3622  
(PLANCKH, E.), 4127  
PLANK, H. K., 3774  
PLANT, W., 3573  
PLATONE, E., 3984

PLOPER, J., 3724d  
PLUMMER, C. C., 3936  
PODJAPOLSKAJA, V. P., 3174, 3587  
PODRAŽANSKI, A. L., 3343, 3346  
POHLMAN, G. G., 3736  
POLJAKOV, I. M., 3728  
POLLARD, A., 3305, 3316  
POOLE, A. L., 3776  
POST, K., 3857  
POSTHUMUS, O., 3916p  
POTAPENKO, JA. I., 3334  
POTTER, J. M. S., 3240  
POUND, C. E., 3532  
PRADYUMNA SINGH, M., 4079  
PRATT, H. K., 3952  
PRATT, R. M., 3479  
PREW, H. A., 3376  
PRICE, M. D., 3449  
PRIDHAM, A. M. S., 3531, 3898  
PRILLINGER, F., 3341  
PRIMOST, E., 3149  
"DE PROEFTUIN" TE BOSKOOP,  
4108  
PROKOFEV, A. A., 3828  
PROKOŠEV, S. M., 3715  
PRONIČEVA, L. L., 3694  
VAN PROOIJEN, A. M., 3805, 3831k  
PRUTHI, J. S., 3963h  
PUFFER, R. E., 3540  
PUSHKARNATH, —, 3677  
PUZZI, D., 4062  
PYNAERT, L., 3831 l

QUANTZ, L., 3591, 3592  
QUEENSLAND GOVERNMENT STAT-  
ISTICIAN (SOLOMON, S. E.),  
4080o  
DE QUERQUIS, F., 3742  
QUIMBA, G. P., 3512  
QUINLAN-WATSON, T. A. F., 3208

VAN RAALTE, M. H., 3185  
RADA, E. L., 3916q  
RADEMACHER, B., 3502  
RAHN, E. M., 3548  
RAJAT DE, 4055  
RAKITIN, JU. V., 3293  
RAMSEY, G. B., 3402, 3578  
RAMSFIJEL, T., 3394  
RANDHAWA, G. S., 3312n  
RAPLEYE, R. D., 3916n  
RASTEGAIEVA, E. M., 3694  
RAVAULT, L., 3609  
RAWLINS, W. A., 3614  
RAYCHAUDHURI, S. P., 4080e  
RAYMOND, C. B., 3674r  
REBOUR, H., 3917  
REDEMANN, C. T., 3192  
REDIT, W. H., 3953  
REED, J., 3492x  
REED, J. P., 3567  
REFATTI, E., 3381, 3399  
REGEL, C., 3330  
REID, R. D., 3360  
REID, W. D., 3392  
REIFF, M., 3448  
REIMER, F. C., 3246  
REINDERS-GOUWENTAK, C. A.,  
3645  
RENAUD, M., 3963i  
REYES, G. M., 4080p  
REYNE, A., 3992  
REYNOLDS, J. D., 3674 s

RICHARDS, A. V., 3976, 4014  
RICHARDSON, C. H., 3433  
RICHARDSON, D. A., 3214  
RICHTER, H., 3707, 3708  
RIKER, A. J., 3211  
RILEY, J. P., 3812  
RIPERT, F., 4080q  
RIPPER, W. E., 3492u, 3787  
RIVERS, T. H., 3312o  
ROBB, J., 3493a  
ROBERTS, A. N., 3892  
ROBERTS, E. A. H., 4080r  
ROBERTSON, N., 3873  
ROBERTSON, R. M., 3866  
ROBERTSON, R. N., 3200  
(RODECK, H. G., editor), 4111  
RODIONENKO, G. I., 3870  
RODRIAN, —, 3474  
RODRIGUES, A., 3332  
RODŽABLI, A. D., 3244  
ROESLER, R., 3415  
ROLAND, G., 3621  
ROLINSON, G. N., 3228e  
ROPER, B. E., 3950  
ROSE, D. H., 3953  
ROSENSTIEL, R. G., 3409  
ROST, C. O., 3632  
ROTAECHE, C. E., 3657  
ROTHAMSTED EXPERIMENTAL STA-  
TION, 4139, 4140  
ROUFFA, A. S., 3916r, 3916s  
ROUIR, E. V., 3155  
ROUSSEAU, A., 3831m  
ROY, R. S., 3576  
ROYAL INSTITUTE FOR THE  
TROPICS, AMSTERDAM, 4104  
ROYAL SOCIETY, LONDON, 3146  
ROYAL SOCIETY, SYMBOLS COM-  
MITTEE, 3147  
RUBBER RESEARCH INSTITUTE OF  
MALAYA, 4033, 4130  
RUBIN, B. A., 3951  
RUI, D., 3381  
RUINEN, J., 4030, 4031, 4032  
VON RÜMKER, R., 3696  
RUNOV, V. I., 3606  
RUSIAŠVILI, I. L., 3437  
RUST, I., 3835  
RUST, R. E., 3568  
RUTSCHKY, C. W., 3633  
RYAN, M., 3705  
RYAN, M. H., 3228w

SACCAS, A., 4010  
ŠAĪTAN, I. M., 3247  
SALTER, R. M., 4110  
SANDERS, W. T., 4099  
ŠANTAROVIČ, P. C., 3828  
SÃO PAULO AGRICULTURAL INSTI-  
TUTE, BRAZIL, 4141  
ŠAPOŠNIKOV, G. H., 3419  
SARTORIS, G. B., 4057  
SAVARY, A., 3492v  
SAYRE, C. B., 3653  
SCARAMUZZI, G., 3886  
SCARTH, G. W., 3167  
SCHELLENBERG, A., 3492w  
SCHMECHEL, D. S. O., 3986  
SCHMID, G., 3230  
SCHMID, W., 3312p  
SCHMIDT, H., 3377  
SCHMILL, M. M., 3311  
SCHMITT, C. G., 3467  
SCHNEIDER, E. O., 3733

- SCHNEIDER, H., 3312q  
 SCHNEIDER, R., 3707, 3708  
 SCHRANK, A. R., 3228x  
 SCHROEDER, C. A., 4077  
 SCHULTZ, E. S., 3699  
 SCHWANITZ, F., 3162, 3834  
 SCHWANITZ, H., 3834  
 SCHWEIZER, J., 4026, 4028  
 SCOGNAMIGLIO, A., 3459  
 SCOTT, W., 4064  
 SCOTT, T., 3724a  
 SCUDDER, W. T., 3690  
 SEELEY, J. G., 3871, 3889  
 SÉLARIÈS, P., 3724e  
 SELL, H. M., 3192  
 DE SENNA BRAGA, O., 3778  
 SERGEEVA, V. D., 3338  
 SERVAZZI, O., 3488  
 SERVICE DE LA DÉFENSE DES  
 VÉGÉTAUX, 3422  
 SERVICE DE L'HORTICULTURE,  
 MISSION HORTICOLE, RABAT,  
 3680  
 SERVICE DE LA PROTECTION DES  
 VÉGÉTAUX, STRASBOURG,  
 3613  
 SESHADRI, T. R., 3229e  
 SEVERIN, H. H. P., 3658, 3659,  
 3674t, 3865, 3877, 3916t  
 SHANKS, J. B., 3904  
 SHAULIS, N., 3328  
 SHAW, J. G., 3936  
 SHAW, M., 3167  
 SHEAR, G. M., 3628  
 SHEE, B. W., 4044  
 SHRIVASTAVA, D. L., 3799  
 SHULKUM, E., 3727  
 SIMMONDS, H. W., 3937, 3938  
 SINGH, D., 4012  
 SINGH, D. P., 3800  
 SIRONVAL, C., 3216  
 SÍVORI, E. M., 3193  
 SKARD, O., 3307  
 SKEPPER, A. H., 3308  
 SKRIPICYNÁ, N. E., 3648  
 SLATER, SIR W., 3145  
 SMALL, T., 3724f  
 SMEETS, L., 3645  
 SMIRNOV, N. P., 3177  
 SMITH, B. P., 3159  
 SMITH, F. F., 3852, 3883, 3885,  
 3893  
 SMITH, K. M., 4100  
 SMITH, M. A., 3402, 3578  
 SMITH, W. L., Jr., 3723  
 SMOCK, R. M., 3302  
 SMOOT, J. J., 3637  
 SNIJDERS, J. H., 3494  
 SNYDER, R. J., 3856  
 SNYDER, W. E., 3537  
 SOETARDI, R. G., 3978  
 SOKOLOVA, E. P., 3272  
 SOLÍS R., F., 3996  
 SOLOMON, S. E., 4080o  
 SOMERS, G. F., 3229f  
 SONESSON, N., 3312r  
 SONWALKAR, M. S., 4078  
 SOUSA DE MACEDO, J. C., 3994  
 [SOUTH AUSTRALIA AGRICUL-  
 TURAL DEPARTMENT], 3522  
 SPECHT, A. W., 3407  
 SPEYER, [W.], 3599  
 SPEYER, W., 3595  
 SPITZER, C. H., Jr., 3408  
 SPOON, W., 3793  
 SPRAU, F., 3697  
 SQUIRES, D. W., 3427  
 STAPLEY, J. H., 3471  
 STARNES, O., 3492x, 3567  
 STATENS FORSGSGVIRKSOMHED I  
 PLANTEKULTUR, 3492y, 3505,  
 3559r, 3674u, 3678  
 STEARNS, C. R., Jr., 3947  
 STEERE, R. L., 3762g, 3762h  
 STEIB, R. J., 4058  
 STEINBACH, H. B., 3229g  
 STEINECK, O., 3691  
 STELLWAAG, F., 3416  
 STENUIT, D., 3622  
 STERN, F. C., 3908  
 STERN, W. R., 4036  
 STEVENSON, F. J., 3675  
 STEWARD, F. C., 3229j  
 STEWARD, W. S., 3948  
 STICKLEY, R. M., 3270  
 STILLER, —, 3281  
 STITT, L. L., 3571, 3627  
 STOLETOV, V. N., 3197  
 STOREY, H. H., 3966  
 STORRS AGRICULTURAL EXPERI-  
 MENT STATION, CONNECTICUT,  
 4153d  
 STOUT, P. R., 3649  
 STOVER, R. H., 3749, 3755  
 STRICKLAND, A. H., 3981  
 STROGOV, B. P., 3296  
 STROMME, E. R., 3588  
 STRONG, M. C., 3666  
 STRUCKMEYER, B. E., 3903  
 STUITSKIJ, A. N., 3150  
 STURDY, M., 3306  
 STUTZ, R. E., 3166  
 SUAREZ DE CASTRO, F., 4005  
 SUDNIK, N. C., 3280  
 SUN, V. G., 4043, 4080s  
 SUTCLIFFE, H. M., 3792  
 SUTHERLAND, W. W., 3492m  
 ŠUTOVA, N. N., 3445  
 SUTTON, M. D., 3393  
 SVEŠNIKOVA, I. N., 3862  
 SWAIN, T., 3304  
 SWAMINATHAN, M. S., 3724g  
 SWANBACK, T. R., 3739  
 SWEET, R. D., 3559g, 3559s, 3674r  
 SYUBAROVA, E. P., 3280  
 TALBERT, T. J., 3256, 3312s, 3327  
 TALLACHINI, M. E., 3282  
 TALLEY, L. E., 3229a  
 TANG, W. H., 3831n  
 TATARINCEV, A. S., 3272  
 TATCHELL, A. R., 3791  
 TAYLOR, G., 3908, 3916u  
 TAYLOR, R. H., 3463  
 TCHOUVAKHINE, P. V., 3432, 4061  
 TEMPLEMAN, W. G., 3503  
 TERRY, C. W., 3479  
 TEW, R. P., 3469  
 THIEM, H., 3379, 3430, 3431, 3442,  
 3492z  
 THOMAS, I., 3724h  
 THOMAS, J. B., 3229h, 3831o  
 THOMAS, M., 3229i  
 THOMAS, M. D., 3378  
 THOMAS, W. D., Jr., 3844  
 THOMAS, W. L., 4101  
 THOMPSON, F. C., 3784  
 THOMPSON, H. C., 3584, 3690  
 THOMPSON, J. F., 3229j  
 THOMPSON, W. L., 3947  
 THORSRUD, J., 3319, 3321  
 TIMBERLAKE, C. F., 3316  
 TIMMONS, F. L., 3497  
 TINGEY, D. C., 3497  
 TIRADO T., A., 3775  
 TISCHER, J., 3820  
 TISCHLER, N., 3512  
 TITOVA-MOLČANOVA, Z. JA.,  
 3337  
 TIZIO, R. M., 3971  
 TOBACCO RESEARCH STATION,  
 TRELAWNEY, 4142  
 TODD, J. M., 3982  
 DU TOIT, J. J., 3635  
 DU TOIT, J. L., 4080t  
 TOLHURST, J., 3363  
 TOMETORP, G., 3674v  
 TOMLINSON, W. E., Jr., 3435  
 TOMPKINS, C. M., 3858, 3865,  
 3877  
 TOSELLO, A., 3998  
 TOURÓN, E. A., 3436  
 TRAVINA, O. K., 3923  
 TRELAWNEY TOBACCO RESEARCH  
 STATION, 4142  
 (TRESSLER, D. K., editor), 4143  
 TRIONE, S., 3286  
 TRUSEVIC, G. V., 3261  
 TSENG, P. M., 4046  
 TUCKER, B. D. A., 3313  
 TUKEY, L. D., 3317  
 TUNBLAD, B., 3461, 3881, 3882  
 TURLAPOVA, A., 3679  
 TURNER, J. S., 3229k  
 ULMANN, M., 4102  
 URIBE HENAO, A., 4023  
 U.S. DEPARTMENT OF AGRICUL-  
 TURE, 4145  
 U.S. DEPARTMENT OF AGRICUL-  
 TURE, BUREAU OF AGRICUL-  
 TURAL ECONOMICS, 3563  
 U.S. DEPARTMENT OF AGRICUL-  
 TURE, DIVISION OF WEED  
 INVESTIGATIONS, 3495  
 U.S. DEPARTMENT OF AGRICUL-  
 TURE, OFFICE OF FOREIGN  
 AGRICULTURAL RELATIONS,  
 4144  
 UTAH AGRICULTURAL EXPERI-  
 MENT STATION, 4146  
 VALENZUELA, P., 3794  
 VALLANCE, L. G., 4054  
 VALLEGGI, M., 3290  
 VALLEVIK, G., 3312t  
 VALSET, K., 3312u  
 VANDERWALLE, R., 3621  
 VAN LAAN, G. J., 3840  
 VANSELOW, A. P., 3963a  
 VARMA, S. R., 3565  
 VASILKOVA, T. M., 3925  
 VAYSSIÈRE, P., 3756  
 VEENSTRA, H., 4074  
 VEERSEMA, J., 3518  
 VERHAAR, G., 4075  
 VERMAAT, J. G., 3968  
 VIDALI, A., 3487, 3754  
 VINK, A. P. A., 3979  
 VINOT, M., 3724i  
 VIRGINIA AGRICULTURAL EXPERI-  
 MENT STATION, 4147

- VIRGINIA POLYTECHNIC INSTITUTE,  
AGRONOMY DEPARTMENT,  
3725  
VISMARA, C. A., 3674w  
VOLK, O. H., 4094  
VOLLEMA, J. S., 4027  
VOLODURSKII, N. I., 3744  
VOLOSKY Y., E., 3607  
VOLZ, E. C., 3888  
VAN VUREN, J. P. J., 3199
- WADE, G. C., 3590  
WAHNON, J. S., 3351  
WALKER, W. F., 3300  
WALLACE, P. P., 3598  
WALLACE, T., 3205  
WALLY-VAN VREESWIJK, A. C.,  
3831p  
WALP, R. L., 3916v  
WALTER, E. D., 3949  
WALTERS, H. J., 3746  
WARD, K. M., 3964  
WARREN, G. F., 3507, 3555, 3559t  
WASHAUER, B. L., 3634  
WASHINGTON AGRICULTURAL EX-  
PERIMENT STATION, PULLMAN,  
4153o  
WATROUS, R. C., 3973  
WATSON, G. A., 3784  
WATTLE RESEARCH INSTITUTE,  
4148  
WAYGOOD, E. R., 3229 l
- WAYWELL, C. G., 3544  
WEED, R. M., 3771  
WEINMAN, C. J., 3481  
WENE, G. P., 3615, 3945  
WERFFT, R., 3152  
WEST VIRGINIA AGRICULTURAL  
EXPERIMENT STATION, 4149,  
4153p  
WESTER, R. E., 3601  
DE WEVER, J., 3790  
WEXELSEN, H., 3183  
WEYDAHL, E., 3307  
WHATLEY, F. R., 3160  
WHITE, D. G., 3317  
WHITE, P. R., 3202  
WIERSMA, J. H. N., 4034  
WIESMANN, R., 3448  
WILCOX, J., 3668  
WILCOX, M. S., 3639  
WILHELM, —, 3473  
DE WILJES, H. G., 4018  
WILLIAMS, H. H., 3159  
WILLIAMS, K. T., 3634  
WILLIAMS, R. C., 3762g, 3762h  
WILSON, J. D., 3674x  
WILSON GREENE, L., 3810  
WITMAN, E. D., 3515  
WITTE, K., 3369  
WITTWER, S. H., 3192  
WOLGAMOT, I. H., 3640  
WOOD, B. J., 3822  
WOODCOCK, D., 3278, 3475
- WOODSIDE, A. M., 3423  
WOODWARD, J. C., 3484  
WORK, P., 3644  
WORMS, P., 3957  
WRIGHT, D. W., 3594  
WRIGLEY, P. I., 3151  
WYE COLLEGE DEPARTMENT OF  
HOP RESEARCH, 4153q  
WYND, F. L., 3361, 3588, 3863  
WYOMING AGRICULTURAL EX-  
PERIMENT STATION, 4150
- YAZICIOGLU, T., 3920  
YEH, T. Y., 4053  
YERINGTON, A. P., 3941  
YOUNG, H. C., Jr., 3382  
YOUNG, H. Y., 3158  
YOUNG, R. E., 3952  
YUST, H. R., 3939
- ZAAAR, È. I., 3870  
ZACHARIUS, R. M., 3229j  
ZANON, K. W., 3271  
ŽAVORONKOV, P. A., 3241  
ZIMMERMAN, J. F., 3674y  
ZIMMERMAN, P. W., 3184, 3189,  
3294, 3551, 3886  
ŽUKOVA, G., 3685  
VAN ZWET, A. J., 3990  
VAN ZWIETEN, P., 4080u



# INDEX OF NAMES

## Horticultural Abstracts, Vol. XXI

N.B.—Brackets round the name denote that this person, although not the author, was directly or indirectly concerned with the article.

- A., C., 3017  
 Aaron, I., 1353  
 Abbiss, H. W., 874  
 (Abbiss, H. W.), 2159  
 Abdullaev, A. G., 178  
 Abdullaev, S. G., 614  
 Abel, A. L., 3492a  
 Aberconway, Lord, 3916a  
 Åberg, E., 2551  
 Abou Raya, M. A., 1283  
 Abraham, E. P., 3451  
 Abrahams, M. D., 795f  
 Abreu Velho, H. de L., 1187a, 4016  
 Abruña, F., 2672  
 Accorsi, W. R., 2972  
 Acerete, A., 227, 2112  
 Ackerman, W., 2311  
 Ackley, W. B., 2534  
 Acock, A. M., 2139  
 Adams, A. F. R., 1674  
 Adams, J. A., 3914  
 Adams, J. B., 745  
 Adams, J. E., 101  
 Adams, N. M., 3499  
 Adams, R. E., 3479  
 Adamson, N. J., 791  
 Addicott, F. T., 826, 2237, 2238  
 Adiwonoto, R. S., 2552  
 Adrianse, G. W., 2968a  
 Adsuar, J., 1187b, 3068, 4020  
 African Explosives and Chemical Industries, 2140  
 Agapov, S. P., 624  
 Agarwala, S. C., 1611, 3574, 3575  
 Agati, G., 2683  
 van Aggelen-Bot, G. M., 4080a  
 Agliany, J., 1950a  
 (Agricultural Department, S. Australia), 3522  
 Agricultural Improvement Committee, 4103  
 Agricultural Land Commission, 1210  
 (Agricultural Research Institute, Pretoria), 2152  
 Agronomy Department, Virginia Polytechnic Institute, 3725  
 Agüero S., D., 1073  
 Ahlberg, O., 743  
 Ahmad, S., 963  
 Aitkenhead, P., 1905  
 Aizenštat, Ja. S., 51, 3643  
 Ajban, A., 300a  
 Akamine, E. K., 2538  
 Aksu, S., 1813  
 Akune, S., 1712  
 Alamercery, J., 3194  
 Alarcon, P. J., 3008, 3011, 3088a  
 Alban, E. K., 1584, 1603a  
 Alben, A. O., 2407, 2408  
 Albert, A. R., 697  
 Alberts, H. W., 1722  
 Albrook, R. L., 3818  
 Alcalde Lassalle, A. J., 1456  
 Alcaraz Mira, E., 3752  
 Alderman, W. H., 318, 2292  
 Aldrich, D. G., 1967, 2918, 3963a  
 Aldrich, R. J., 3500, 3540, 3545, 3559o  
 Aleksandrov, F. A., 1890  
 Alex, J. F., 2548  
 Alexander, D. M., 1702  
 Alexander, L. J., 2708a  
 Alexander, L. M., 768a  
 l'Algérie, Gouvernement Général de, 1399f  
 Ali, N., 966  
 Alibert, H., 2890  
 Ali-Zade, M. A., 3076, 4072  
 Allen, F. W., 228  
 Allen, J. M., 3970  
 Allen, M., 2521  
 Allen, M. W., 2473  
 Allen, N. S., 109a  
 Allen, O. N., 2854  
 Allen, W. R., 426, 559  
 Allen, W. W., 510a  
 Allo, A. V., 566  
 Allmendinger, D. F., 3872  
 Allnutt, R. B., 4080b  
 Almeida, C. R. Marques de, 165, 1056  
 Alpatov, V. V., 621  
 Altona, R. E., 1949, 2570a  
 Alvarez Garcia, L. A., 3023, 3084  
 Alviar, M. A., 1725b  
 Alvim, P. de T., 3024  
 Amaral, J. D., 3239  
 do Amaral, J. F., 3671  
 American Chemical Society, 2189  
 American Fruit Grower, 1514  
 American Phytopathological Society, Fungicide Committee, 403  
 American Ramie Company, 1870a  
 Ames, R. W., 2887a  
 Amizet, L., 936  
 Amos, E. F., 2522  
 Amsterdam, Royal Institute for the Indies, 1211, 2141  
 Amsterdam, Royal Institute for the Tropics, 4104  
 Amy, A. S., 3644  
 Analytical Measurements, Inc., 3222  
 Anandan, A. P., 2992  
 Andersen, A. L., 2614, 2621  
 Andersen, E. T., 2561  
 Andersen, O., 2869  
 Anderson, A. D., 1187f  
 Anderson, C. G., 1479  
 Anderson, E. G., 510b  
 Anderson, E. J., 3036, 3037  
 Anderson, E. T., 479  
 Anderson, G. R., 480  
 Anderson, J. C., 2375a  
 Anderson, L. D., 749, 2708n  
 Anderson, P. J., 2781  
 Anderson, R. B., 768a  
 Anderssen, F. G., 928, 2142  
 Andison, H., 2274, 2493, 2867  
 Andrade, A. C., 663, 3711, 4062  
 Andrén, F., 732, 3396  
 Anet, F. A. L., 800  
 Angelini, A., 424  
 Angell, H. R., 595  
 Aniščenko, N. F., 3744  
 Anjou, K., 3312a  
 Anley, G., 4081  
 Anon., 104, 105, 220, 306, 340, 353, 358, 374, 400, 447, 473, 476, 544, 613, 616, 634, 681, 686, 687a, 803, 850, 859, 863, 871, 915, 967, 974, 1000, 1148, 1279, 1319, 1321, 1323, 1326, 1345, 1511, 1557, 1725a, 1923, 1935, 1958, 2009, 2075, 2111a, 2270, 2272, 2297, 2375b, 2384, 2424, 2536a, 2570b, 2576, 2856, 3003, 3013, 3038, 3045, 3072, 3352, 3371, 3385, 3389, 3468, 3520, 3559a,

# INDEX OF NAMES

- 3561, 3564, 3605, 3641,  
3646, 3665, 3731, 3734,  
3757, 3763, 3765, 3766,  
3768, 3795, 3811, 3813,  
3831a, 3831b, 3831c, 3845,  
3954, 3963b, 3963c, 3985,  
3987, 4025, 4049, 4066,  
4080c  
Anscombe, F. J., 1789a  
Ansiaux, J. R., 3228q  
Anstey, T. H., 300b  
Anthon, E. W., 431t, 2444, 2486  
Antia, M. B., 836a  
Antipova, L. K., 701  
Antognini, J., 3527, 3553  
Aoki, K., 1471  
Apple, J. W., 1688  
Araujo, R. L., 4080d  
Arceneaux, C. J., 3492b  
Arcihovskaja, E. V., 1996, 3951  
Arends, G., 4082  
Argikar, G. P., 1856  
Argoud, S., 1187p  
Arhangel'skii, S. A., 692  
Arikado, H., 2081  
Ark, P. A., 661  
Arle, H. F., 477  
Armand, J. E., 2596, 2609,  
2641  
Armstrong, T., 431a  
Armstrong, W. D., 3418  
Army, T. J., 3180  
Arnaud, G., 3492c  
Arnault-Martiné, M., 609  
Arndt, E., 3295  
Arnold, C. Y., 2691  
Arnold, G., 1512  
Arnold, G. H., 2062  
Arnon, D. I., 3160  
Aronoff, S., 2228  
Aronovsky, S. I., 3229a, 3792  
Arreguin, B., 3822  
Arrillaga, N. G., 3804  
Arroyo B., C., 3996, 4001  
Arruda, H. C., 1102  
Arruda, S. C., 1102  
de Arruda Veiga, A., 3896  
Arsan, E., 1793  
Arsenjeva, M. V., 549  
Artschwager, E., 3057  
von Arx, J. A., 2650, 2851  
Asai, T., 109b, 1248  
Asano, R. D., 1136  
Asen, S., 896, 2870, 3890  
Ashby, D. G., 1812  
Ashby, E., 1265  
Ashby, W. C., 2242  
Askew, H. O., 89, 3785  
(Astelarra, L.), 384  
Asquith, D., 2529, 3424  
Atchison, E., 1677  
Athawale, C. R., 1863  
Athens, Office International du  
Vin, 300i  
Atkins, E. L., Jr., 2938, 2941,  
3943  
Atkins, F. C., 601, 602, 1188,  
1663  
(Atkinson, F. E.), 2158  
Atkinson, H. J., 1742  
Atkinson, R. M., 630  
Attia, M. S., 3674a, 3674b  
Attoe, O. J., 2215  
Aubert, P., 1394  
Aubin, L., 1341  
Audas, J. W., 3089  
Auger, R., 550  
Australia Canned Fruit Board,  
4153a  
Australia, Commonwealth  
Dried Fruit Control  
Board, 4105  
Austria, Bundesanstalt für  
Alpine Landwirtschaft,  
Admont, 1213  
Autuori, M., 2111b, 3443  
Avakan, A. A., 37  
Avellaneda, M., 3286  
Avery, G. S., Jr., 2249  
A.V.R.O.S., 4106  
Axelrod, B., 3743  
Aycock, R., 2606  
Ayers, T. T., 3608  
Azarevič, E. M., 2633  
Azeez, M. A., 1122  
  
Baas Becking, L. G. M., 2062  
Babb, M. F., 620  
Baccialone, J., 1922  
Bachmann, F., 378  
Back, W. B., 793  
Backus, R. C., 3762h  
Bacon, C. W., 3741  
Bacon, J. S. D., 2707  
Bacon, O. G., 641  
Bacylev, E. G., 746  
Badcock, W. J., 1004  
Badmin, S. R., 2116  
Baerecke, M.-L., 1733  
Bagenal, N. B., 2113  
Bagge, H., 3816, 3817  
Bäggi, W., 3231  
Baikov, G. K., 3326  
Bailey, D. L., 674  
Bailey, F. L., 240, 242, 1312  
Bailey, J. S., 366, 1401  
Baines, R. C., 431b, 2968b,  
3934  
Bains, G. S., 768b  
Baird, E. W., 2093  
Baker, G. O., 480  
Baker, K. F., 839, 927a, 1900,  
3864  
Baker, M. S., 2083  
Baker, R. S., 2283h, 3171, 3172  
Bakke, A. L., 1564  
Bakker, M., 3572  
Bakši, A. Ja., 2330  
Balašov, P. K., 136  
Baldacci, E., 290, 1477, 3492d  
Baldini, E., 1694, 2283a, 2328  
Baldwin, E., 1189  
Baldwin, J. T., Jr., 2795, 2887b  
Baldwin, M. M., 1516  
Ballot, —, 2403  
Balsgård, 1212  
Baltadori, A., 2418a  
Bandyopadhyay, K. S., 1143,  
1165, 1187o  
Banga, O., 2574, 2644, 3674c  
Bangham, W. N., 3044  
Banif, A., 1959  
Bann, J. M., 3481  
Banta, E. S., 1320  
Banzon, J., 2036  
Baranovskii, A. L., 2385  
Barber, L. A., 1826  
Barbier, G., 431c, 2375c, 2426  
Barbosa, I. G., 1187c  
Bardin, R., 633  
Barer, R., 2280  
Barker, B. T. P., 3312b  
Barker., 3721  
Barlow, H. W. B., 1293, 2352,  
2362  
Barnes, A. C., 1132, 1151,  
3088b  
Barnes, D. F., 2001, 2507  
Barnes, H. V., 3970  
Barnes, W. C., 3582  
Barnett, H. L., 1244b  
Barnett, R. J., 2285  
Barquero, H., 1033  
Barron, E. S. G., 1754  
Barrons, K. C., 3508, 3513  
Barrus, M. F., 3044  
Bartels, R., 1763  
Bartholomew, E. T., 2924,  
3948  
Bartlett, B. R., 3963d  
Barton, G., 2801  
Barton, L. V., 581, 3525  
Bartram, R. D., 1358  
Bascom, B. A., 4057  
Bashford, L. A., 1864  
Baskaya, M., 2308  
Bass, L. W., 1521  
Bassham, J. A., 109c  
Basteleus, R., 2391  
Batchelder, C. H., 428  
Batchelor, L. D., 939, 1960  
Bates, G., 4052  
Bates, J. C., 1552  
Bati, M. B., 2296  
Batjer, L. P., 1390, 2327, 2358,  
3291  
Batra, A. L., 1075  
Baudewijn, J., 303, 600  
Baumann, H., 1741  
Baur, K., 2580  
Bawden, F. C., 1190, 1801,  
1802, 3745

# INDEX OF NAMES

- Bayton, J. A., 1011a  
Bazzigher, G., 1920  
Beach, G., 3846  
Beach, W. S., 673, 3733  
Beakbane, A. B., 2435  
Beal, J. M., 1298  
Beale, H. P., 399  
Beamish, J. E., 1331a  
Bean, R. C., 36741  
Bean, W. J., 2114  
Bear, F. E., 2213, 2581  
Beard, F. H., 2817, 2818  
Beattie, J. H., 627, 3604  
Beattie, J. M., 193  
Beatty, R. H., 1601, 3559b, 3559c  
Beauchamp, C. E., 1125, 1127, 1135, 2087  
Beaumont, A., 927b, 927c, 1888, 1897, 1912, 3674d, 3916b, 3916c, 3916d, 3916e  
Beavens, E. A., 990  
Beckham, C. M., 3439  
Bedbrook, C., 1950b  
Bedford, C. L., 687b  
Beech, F. W., 3312c  
Beecher, F. S., 569  
van Beers, W. F. J., 2017  
Beeson, D. M., 2449  
Beeson, K. C., 19, 3204  
Beevers, H., 3868  
Begačeva-Muhina, V. A., *see* Muhina  
Behr, L., 687c, 731  
Beinhart, E. G., 3762a  
Beilin, I. G., 472  
Bejuki, W. M., 3512  
Belgium, Centre de Recherches de la Ligue Pomologique pour la Défense du Fruit Belge, 1217  
Belgium, Service des Conseillers d'Horticulture de l'État, 481  
Bell, F. W., 1743  
Bell, H. K., 179  
Bell, H. P., 1403  
Bell, L., 1512  
Bell, R. C., 3318  
Bell, S. A., 3963e  
Bell, T. A., 3579  
Belohonov, I. V., 328  
Bels, P. J., 2630  
Bels-Koning, H. C., 1667  
Bemfield, E., 2809  
Benda, G. T. A., 2771  
Bender, E. K., 1603b  
Benedict, H. M., 823, 824  
Benne, E. J., 18, 20  
Bennet-Clarke, T. A., 53, 3178  
Bennett, C. W., 3662  
Bennett, H., 1798, 1817, 1854, 2825  
Bennett, M., 2324, 2455  
Bensaude, M., 2980  
Benson, A. A., 109c  
Benson, N. R., 2534  
Bentley, J. A., 1331b  
Benvegnin, L., 1425  
Berán, F., 302, 412, 2738  
Berck, B., 559  
Bercks, R., 726, 727, 3701, 3703  
Berg, J., 4083  
Berger, K. C., 1306  
Bergmann, M. E., 3762b, 3762c  
Berkeley, G. H., 1453, 1800, 2887c  
Berman, I., 3286  
Bermuda Department of Agriculture, 3101  
Bernard, J., 3441  
Bernaux, P., 350, 3724i  
Berndt, O. E., 428  
von Bernuth (Frau), 1757  
Berry, L. J., 3674y  
Berry, P. A., 1616  
Bertoni, J., 1052  
Bertossi, F., 2755, 2757, 3482, 3759  
Bertramson, B. R., 88  
Berwick, E. J. H., 515, 1187d, 2987  
Bess, H. A., 3669  
Betancourt, H., 3005  
Bevan, W. J., 3875  
Bevenue, A., 21, 1725r  
Bevilacqua, I., 2501  
Bewley, W. F., 1884  
Bhasin, M., 3814  
Biale, J. B., 2282, 3952  
Bibbey, R. O., 3544  
Biedermann, H., 3276  
Bieri, F., 1527  
Bierman, H. A., 1553  
Biliotti, E., 2523  
Billaux, P., 2965  
Bing, A., 3857  
Binkley, A. M., 1745, 3686  
Bishop, C. J., 3454  
Bishop, J. R., 2243  
Bishopp, F. C., 3719  
Biswas, K., 1085  
Bitters, W. P., 1960, 2925, 3931  
Bitting, H. W., 1011a  
Bittner, C. S., 1434a  
Black, L. M., 786  
Black, W., 729, 1726  
Black, W. A. P., 1331c  
Blackburn, F. H. B., 1121, 1163  
Blackie, W. J., 2004  
Blackith, R. E., 758, 1540a  
Blackman, G. E., 27, 432, 2216, 2562, 3503  
Blackmon, G. H., 359, 1002, 1007  
Blair, B. O., 510c  
Blair, C. A., 2478  
Blair, D. S., 124, 161, 201, 1400, 2290, 3233  
(Blair, D. S.), 1408, 1434b, 1434c  
Blair, I. D., 2194  
Blaizot, J., 1187e  
Blaizot, S., 1187e  
Blanchard, F. A., 1310, 2628  
Blanchard, L. E., 7  
Blanchard, R. A., 687d, 2708b  
Blasencko, I. A., 3929  
Blaser, H. W., 145  
Bledsoe, R. W., 2320  
Bless, A. A., 2217  
Blin, H., 3629  
Blinn, R. C., 2832g  
Bliss, D. E., 1999  
Blodgett, E. C., 331  
van Blommestein, J. A., 1701  
Blondeau, R., 2344  
Bluhm, C. R., 3843  
Blume, J. M., 1302  
Blumer, S., 1464, 2516, 3383, 3492e, 3906  
Bluvštejn, I. N., 1442  
Boback, A. W., 1780  
Bockmann, H., 1651  
Boczkowska, M., 3713  
Bode, O., 1739, 3700  
Bodenheimer, F. S., 3090  
Bodenstein, O. F., 535  
Bodmer, H., 3897  
Boekenooogen, H. A., 2611  
de Boer, S., 2233  
Bogor Botanic Gardens, Indonesia, 4151  
Bohart, G. E., 1329  
Böhm, H., 302, 371, 551  
Böhm, L., 1191  
Bohmont, D. W., 444  
Böhni, E., 352  
Boke, N. H., 2887d  
Bolli, M., 3175  
Bologna, Laboratorio Sperimentale di Patologia Vegetale, 4107  
Bolomey, R. A., 2283r  
Bolonjaev, A. V., 140  
Bömeke, H., 1448, 1540b, 3297  
Bomhard, M. L., 1998  
Boncompagni, T., 3724a  
Bond, G., 1315  
Bonde, R., 738, 2723  
Bonifacio, P., 2678  
Bongiovanni, G. C., 2508, 2527  
Bonnemaison, L., 2721, 2722  
Bonner, D. M., 2244  
Bonner, J., 2283h, 3822  
Bonnet, J., 815, 3783  
Bonnet, J. A., 2672  
Bontekoe, M. A., 3796  
Boock, O. J., 695, 3718



# INDEX OF NAMES

- Boone, D. M., 2536m  
 Booth, C. O., 2586  
 Booth, V. H., 24, 3619, 3620  
 Borbolla, M. de los A. C. de R. de la, 3228a  
 Borbolla y Alcalá, J. M. R. de la, 3228a  
 Bordeleau, R., 1790  
 Borgström, G., 1399a, 2143, 3312d  
 Borisenko, T. T., 299  
 Borja Carbonell, J., 3831d  
 Borri, M., 494  
 Borsani, L. F., 1508  
 Borthwick, H. A., 919, 1915  
 Bortner, C. E., 793  
 Borzini, G., 3399  
 Bosak, D. E., 245  
 Bosher, J. E., 889  
 Boskoop, "De Proeftuin" te, 1236  
 Bossard, R., 1874, 3832  
 Boswell, J. G., 541  
 Boswell, V. R., 2669  
 Botanic Gardens, Bogor, Indonesia, 4151  
 Botany Section, Queensland, 1573  
 Bóttari, V., 1375  
 Bottger, G. T., 3941  
 Boubals, D., 273, 343, 2401, 2476  
 Bouchard, R. J. A., 3720  
 Boucher, J., 1685  
 Bougard, M., 1380, 2457  
 Bouhelier, R., 3674e  
 Boulais, J., 992  
 Bould, C., 188, 1301, 1381, 3315, 3363  
 Bourdillon, J., 2708c  
 Bouriquet, G., 3088c  
 Bouquet, A., 3764  
 Bowden, R. A., 3361, 3863  
 Bowen, C. V., 1536  
 Bower, R. S., 1187f  
 Bowes, P. C., 3030  
 Bowman, F. T., 190, 1399b  
 Box, G. E. P., 1331d  
 Boyce, A. M., 3935  
 Boyce, J. H., 3916f  
 Boyce, W. R., 3776  
 Boyd, A. E. W., 2713, 2744  
 Boyer, J., 836b  
 Boyle, A. M., 830  
 Boynton, D., 176, 313, 1354, 1444, 3234, 3279  
 Braak, H. R., 1187g  
 Bradford, B., 1949  
 Bradford, G. R., 2918, 3963a  
 Bramble, W. C., 1563  
 Branäs, J., 300c, 2434  
 Brandes, E. W., 1140, 1187h  
 Brandt, C. S., 3204  
 Brannaman, B. L., 1970, 2921  
 Brantingham, J. A., 2418b  
 Braun, A. C., 1932, 2264  
 Braun, A. J., 2470, 2536b  
 Braun, H., 3704  
 Braun, R., 1920  
 Brauns, A., 603  
 Breaker, E. P., 431h, 2491, 2536c  
 Breazeale, E. L., 3201  
 Breazeale, J. F., 3201  
 Bregman, A., 1838  
 Breidbach, —, 3340  
 Breider, H., 391  
 Brekke, J. E., 2375d  
 Brennan, E. G., 1706  
 Brett, D. W., 890  
 Breviglieri, N., 1349, 2115, 2375e  
 Brežnev, D. D., 658, 687e, 1696, 3643  
 Brian, P. W., 2658, 3452  
 Briant, A. M., 753  
 Brichet, J., 951  
 Bridge, R. E., 1184  
 Bridgmon, G. H., 2619, 2863  
 Brieger, F. G., 1252  
 Brierley, P., 860, 2421, 2848, 2866, 2887e  
 Brierley, W. G., 318, 320  
 Bright, N. F. H., 2536d  
 Brilliant, V. A., 4068, 4069  
 Brimhall, B., 687f  
 Brindley, T. A., 1646  
 Bristol, University of, 2  
 British Columbia Department of Agriculture, 1244c, 3102, 4109  
 British Columbia Department of Agriculture (Statistics Branch), 4153b  
 British Commonwealth Scientific Official Conference, 2144  
 British Guiana Department of Agriculture, 2146, 3103  
 British Guiana Director of Agriculture, 2145  
 Britton, J. E., 307  
 Broadbent, B. M., 2947  
 Broadbent, D., 1261  
 Broadbent, L., 1756, 1759, 1760, 2711, 3626  
 Brock, R. D., 1713  
 Bronson, T. E., 2626, 3568, 3593  
 Brooke, J., 1338, 4084  
 Brooks, R. M., 1399c, 2287  
 Brot, R., 1399d  
 Brouard, J., 1187i  
 Brough, C. R., 317, 431d  
 Brouhns, G., 2983  
 Broveyne, V. L., 66  
 Brown, A. G., 169  
 Brown, D. D., 2147  
 Brown, E., 1827, 1828, 1830, 2825  
 Brown, G. B., 3617  
 Brown, H. S., 2237  
 Brown, J. G., 502, 830, 2207, 2307  
 Brown, J. W., 2246  
 Brown, R., 1261, 2220  
 Brown, R. T., 2961  
 Brown, S. M., 2908  
 Browne, F. S., 2579  
 Broyer, T. C., 3179  
 Brucher, F. J., 2671  
 van den Bruel, E., 741  
 van den Bruel, W. E., 3441  
 Brune, W., 2283b, 2598  
 Bruner, H. E., 1558, 1582  
 Brunk, M. E., 560  
 Bruns, V. F., 463  
 Brunson, M. H., 2532  
 Bryan, C. E., 2832a  
 Buchholtz, K. P., 1331e, 1587  
 Buchholtz, W. F., 733, 2461  
 Buck, G. J., 3888  
 Buckley, T. A., 3533  
 Budagovskii, V. I., 1365, 3255  
 Budetta, P., 2788  
 Budnickaja, E. V., 3156  
 Budowski, P., 4015  
 Buhner, N., 2832b  
 Bukin, V. N., 2418e  
 Bullis, D. E., 1848  
 Bullock, J. F., 3741  
 Bullock, R. M., 232, 2342  
 Bundesanstalt für Alpine Landwirtschaft, Admont, Austria, 1213  
 Bundesanst f. Pflanzenbau u. Samenprüfung, Vienna, 1242  
 Bünning, E., 3228b  
 Burakov, Ja. N., 709  
 Burchardt, A., 2018  
 Burchfield, H. P., 405, 406  
 Burdick, E. M., 2923  
 Bureau of Agricultural Economics, U.S. Department of Agriculture, 3563  
 Bureau of Agricultural and Industrial Chemistry, U.S. Department of Agriculture, 820  
 Bureau of Entomology and Plant Quarantine, U.S. Department of Agriculture, 640, 687g, 927d, 1540c, 2708d, 2740  
 (Bureau of Plant Industry), 4110  
 Bureau Technique Alwa, 109d  
 Burger, I. J., 623  
 Burgess, A. H., 3789, 3791  
 Burgess, E. D., 431e

# INDEX OF NAMES

- Burgos, J. C., 3911  
 Burgos, J. J., 16, 3228c  
 Burgoyne, J. H., 3030  
 Burkhart, L., 3322  
 Burnett, N. C., 2832a  
 Burns, R. E., 3738  
 Burr, G. O., 3058  
 Burrell, A. B., 431f  
 Burris, R. H., 775, 3166  
 Burroughs, L. F., 3312e  
 Burström, H., 109e, 2283c  
 Burton, H. S., 431g  
 Bushnell, J., 3631  
 Bušin, P. M., 3344  
 Bustinza, F., 3492f  
 Bustrillos, A. D., 2036  
 Butijn, J., 2334, 2375f  
 (Butterfield, H. C.), 2  
 Butterfield, H. M., 2887f  
 Buttress, F. A., 2193a  
 de Buy Wenniger, W. F. M., 1088  
 Buzin, N. P., 268, 1422  
 Buzover, F. Ja., 3692  
 Byers, G. B., 793  
 Byles, R. S., 891  
 Bynov, F. A., 3735  
 Byrde, R. J. W., 3395  
 Byrkit, G. D., 418
- Caballero Lopez, C., 3839  
 Cabrera, A. L., 1823  
 Cadman, C. H., 2380, 2447  
 Čailahjan, M. H., 48, 50, 109f, 1955, 2226, 3176  
 Caldwell, J., 3850  
 Caldwell, L. M., 180  
 California, Western Regional Research Laboratory, Albany, 300m  
 Calil, J., 2046  
 Callbeck, L. C., 768d, 1766  
 Calma, V. C., 2077  
 Calvin, M., 109c, 3228k  
 Calvino, E. M., 2862  
 Calzecchi-Onesti, A., 3767  
 de Camargo, R., 4002  
 Cambra, M., 168  
 Cambridge University Library, 1244d  
 Cameron, C., 1144  
 Cameron, E., 1618  
 Cameron, J. W., 939  
 Cameron, S. H., 942  
 Camfferman, J., 2418h  
 Čamova, K. G., 32  
 Campacci, C. A., 3623  
 Campanile, S., 994  
 Campbell, J. A., 2689  
 Campbell, J. C., 756  
 Campbell, L., 431h  
 Camus, G. C., 2748, 2749
- Canada Department of Agriculture, Division of Bacteriology and Dairy Research, Science Service, 2158  
 Canada Department of Agriculture, Fruit and Vegetable Products Research Committee, 2158  
 Canada, Minister of Agriculture, 2148  
 Canetto, M., 3833  
 Cann, H. J., 3972  
 Cannon, F. M., 2737  
 Cannon, H. G., 109g  
 Canterbury Agricultural College, N.Z., 2193b  
 Capinpin, J. M., 1725b, 2708e  
 de Capite, L., 3209  
 Capucci, C., 142, 2298  
 Cardeñosa B., R., 2013, 2014, 2015  
 Carder, A. C., 2549  
 Caribbean Commission, 687h, 795a, 4153c  
 Carlone, R., 132, 216, 234a, 289, 2354, 2355  
 Carloni, M., 2787  
 Carlsen, E. W., 2364  
 Carlson, A. E., 3529  
 Carlson, E. C., 552, 3596  
 Carlson, F. W., 2502  
 Carlson, R. B., 980  
 Carlson, R. F., 489, 1603c, 1603d, 2563, 2565, 3559d, 3559e  
 Carman, G. E., 987, 3948  
 Carne, W. M., 1440  
 Caron, A. G., 3718  
 Carpenter, J. B., 1089  
 Carpenter, P. N., 716  
 Carpenter, T. R., 2451  
 Carra, —, 2967  
 Carrante, A., 255  
 Carranza, J. M., 721, 3902  
 Carrier, L. E., 837  
 Carrière de Belgarric, R., 3026  
 (Carson, G. P.), 3096  
 Carter, A. R., 1889  
 Carter, C. L., 2832c  
 Carter, E. P., 452, 488, 510d  
 Carter, R. H., 2531  
 Carter, W., 2536e  
 Carvalho, A., 1061, 2039, 2040, 3999  
 Carvalho, R. de S., 3070  
 Casal, C. R., 2897  
 Casseres, E. H., 3584  
 Cassidy, M. A., 1043  
 Castagnol, E. M., 2965  
 Castillo, C. M., 3997  
 Castaño A., J. J., 3018, 3088d  
 Castberg, C., 231  
 Castellani, E., 2608
- Castrillón, J. A., 2832n  
 Castro A., M. F., 2999, 3000  
 Castro Rego, Z. P., 3237  
 Castronovo, A., 768c, 3657  
 Catchpole, N., 4085  
 Cation, D., 2466  
 Catlow, E., 3315  
 van Cauwenberghe, E., 2318, 2326, 2375g  
 Cawthron Institute, New Zealand, 1214  
 Cayeux, H., 865  
 Cayeux, L., 865, 3861  
 Čelišček, S. P., 3196  
 Central Experimental Farm, Division of Field Husbandry, Soils and Agricultural Engineering, Ottawa, 1215  
 Central Experimental Farm, Division of Horticulture, Ottawa, 1216  
 Central Experimental Farm, Fruit and Vegetable Products Research Committee, Division of Chemistry, Ottawa, 2158  
 Central Experimental Farm, Low Temperature Investigations, Storage Laboratory, Division of Horticulture, Ottawa, 2158  
 Centre de Recherches de la Ligue Pomologique pour la Défense du Fruit Belge, 1217  
 Cercos, A. P., 3455  
 Černenko, E. S., 3161, 3566  
 Černenko, S. F., 125, 133  
 Černetčenko, V. C., 564  
 Ceylon Coconut Research Scheme, 1038  
 Ceylon Rubber Research Scheme, 1218  
 Chabannes, J., 2426  
 Chaboussou, F., 2640  
 Chacravarti, A. S., 1170  
 Chadwick, L. C., 906, 2887g  
 Chadwick, S. H., 2277  
 Chakrabarty, M. M., 3819  
 Chakravarti, K. K., 1819  
 Chakraverti, I. B., 3087  
 Challinor, S. W., 3312c, 3312e  
 Chalk, L., 1202  
 Chalmir, M., 3779  
 Chamberlin, F. S., 2780  
 Champion, J., 2283d  
 Chan, A. P., 851, 1882  
 Chan, N. S., 666  
 Chanda, S. K., 3312f  
 Chandler, C., 3988  
 Chandler, S. C., 394, 2536r  
 Chandler, W. H., 4086  
 Chang, H., 1111

# INDEX OF NAMES

- Chao, T. K., 1112, 1114  
 Chao, T. T., 1124, 3228d  
 Chaparro González, A., 1059  
 Chapman, H. D., 2908, 2911, 2913  
 Chapman, P. J., 379  
 Chapman, R. A., 2698  
 Chapot, H., 2896  
 Chapuis, G., 1666  
 du Charme, E. P., 943  
 Chase, S. B., 2413  
 Chater, G. P., 3788  
 Chatterjee, R., 1870b  
 Chaudhry, G. R., 2832d  
 Chaudhuri, R. P., 1647, 1760  
 Chaugule, B. A., 1576  
 Chavancy, A., 2965  
 Cheesman, E. E., 2111c  
 Chen, M. C., 1145, 4041  
 Chen, M. T., 4063  
 Chen, S. L., 3198  
 Chen, T. H., 3831n  
 Chenault, M., 927e  
 Cheng, C. F., 1114, 1145, 4041  
 Chester, K. S., 431i  
 Chesters, C. G. C., 3228e  
 Chevalier, A., 2389, 2708f, 2798, 2806, 2832e, 2887h, 2887i  
 Chevalier, C., 845, 908  
 Chevalier, M., 927f  
 Cheyne, O. B. M., 1037  
 Chiarelli de Gahan, A., 3436  
 Child, R., 1035, 2993  
 Childers, N. F., 3312h, 3560  
 Childs, J. F. L., 979, 2932  
 Childs, L., 2504  
 Childs, W. H., 249, 2378  
 Chile (Compañía Chilena de Tabacos), 3104  
 Chilton, S. J. P., 497, 3069, 4058  
 Chisholm, R. D., 3492g  
 Chittenden, A. E., 1835, 2802  
 Chittenden, D. B., 1603e  
 Chitwood, G. B., 3407  
 Chiu, S. F., 818  
 Chopinet, R., 576  
 Chouard, P., 187, 411, 3168, 3169, 3170, 3228f, 3228g, 3228h  
 Choudhury, B., 3576  
 Chow, N. P., 1141  
 Chowdhury, S., 4021  
 Christ, E. G., 2557, 3312h  
 Christensen, E., 2715  
 Christiansen, G. S., 69, 70, 1292  
 Christie, G. A., 3061  
 Christie, J. R., 2968c, 3569  
 Chu, H. T., 1156, 1160, 4060  
 Chu, T. L., 1112, 1113  
 Ciferri, R., 772, 795b, 2778, 3374, 3381, 3482, 3754, 3759, 3975, 3984  
 Cillie, G. G., 2958  
 Ćirikov, Ju, F., 3806  
 (Citrus Fruit Advisory Committee), 3921  
 Claassen, C. E., 1857, 1858  
 Claeys, R., 796  
 Clark, F. E., 1247  
 Clark, H. E., 3509  
 Clark, P. G., 2480, 2500  
 Clarke, W. S., Jr., 1353, 1428  
 Clausen, C. P., 3460  
 Claver, F. K., 3193  
 Clayton, C. N., 1540u  
 Clayton, E. E., 770, 2767, 2777  
 Clayton, J. L., 1168  
 Clem, M. A., 2283e  
 Clements, H. F., 3060  
 Clements, J. R., 206  
 Clendenning, K. A., 1277, 32291  
 Clifford, P. A., 2594  
 Clore, W. J., 2336, 2375q, 2418c  
 Clothier, G. E., 3228i  
 Coatton, W. G. H., 3492h  
 Cobb, J. S., 3559f  
 Cobin, M., 1009, 1071  
 Cohic, F., 2975  
 Cochran, F. D., 687i, 687j  
 Cochran, G. W., 337  
 Cochran, L. C., 330, 335  
 Cochran, W. G., 4087  
 Cochrane, V. W., 596  
 Cock, R. E., 3506  
 The Cocoa, Chocolate and Confectionery Alliance, Ltd., 1219  
 Coconut Research Scheme, Ceylon, 1038  
 Coe, D. M., 733  
 Coelho de Souza, W. W., 4004, 4006  
 Coetzee, W. H. K., 1337  
 Cohen, M., 2623  
 Coit, J. E., 2804, 2966  
 Coker, E. G., 2510  
 Cole, C. E., 1586  
 Cole, D. J., 433  
 Cole, J. R., 300d, 2421  
 Colling, R. H., 2111d  
 Collins, J. C., 769, 3732  
 Collins, J. L., 4022  
 Collyer, E., 2483  
 Colonial Development Corporation, 3105  
 Colonial Research Council, 3106  
 Colorado Agricultural Experiment Station, 1220  
 Colorado-Wyoming Academy of Science, 4111  
 Colvin, B., 2116  
 Commonwealth Dried Fruit Control Board, Australia, 4105  
 Commonwealth Economic Committee, 2149, 3107  
 Commonwealth Mycological Institute, 1459  
 Commonwealth Scientific and Industrial Research Organization, Australia, *see* C.S.I.R.O., Australia  
 Complin, J. O., 1990  
 Condado, C., 1977  
 Condit, I. J., 143, 147, 3091  
 Congrès Pomologique de France, 4112  
 Connecticut Agricultural Experiment Station, Storrs, 4153d  
 Connor, H. E., 3499  
 Conover, R. A., 528, 675, 677, 932  
 Constable, W. A., 927g  
 Contardi, H. G., 3347, 3348  
 Conway, T., 3492i  
 Cook, H. T., 2421, 3953  
 Cook, J., 1093  
 Cook, J. A., 189  
 Cook, R. L., 1305, 3836, 3840  
 Cooke, F. C., 1041, 1042  
 Cooley, J. S., 645, 648, 2834  
 Coombe, B. G., 1421  
 Coomber, H. E., 1798, 1817, 1835, 1841, 1844, 1855, 2802  
 Coomes, T. J., 1830, 1841, 1844, 1855  
 Coony, J. J., 1967  
 Cooper, J. F., 3936  
 Coopex, W. C., 2901  
 Cooperative Research and Service Division, Farm Credit Administration, U.S. Department of Agriculture, 1995  
 Coppens, R., 815, 3783  
 Cordon, T. C., 768e  
 Cornell University Agricultural Experiment Station, 4113  
 Cornfield, A. H., 2209, 2212  
 Cornman, J. F., 1603r, 3543  
 Corns, W. G., 441, 504  
 Cornu, C., 2418d  
 Cornu, T., 1416  
 Correa de S. Castelo Branco, A., 3264  
 Correia, F. A., 836n  
 Correll, D. S., 4088  
 Corrin, W. R., 3596  
 de Cortazar, C. S., 694  
 Cortvriendt, S. F., 1872  
 Cosmo, I., 300e, 1413



# INDEX OF NAMES

- Costa, A. S., 782, 969, 970,  
971, 2928, 2929, 3932
- Costantino, G., 376
- Cotton, R. T., 2536f
- Coulter, L. L., 1603f, 3508
- Coupland, R. T., 2548
- Courshee, R. J., 219
- Courtney, W. D., 881, 2865
- Coutu, A. J., 3761
- Coutanceau, M., 375
- Coutieu, P., 1666
- Couwenberg, J. F., 4075
- Cowart, L. E., 470, 496
- Cowgill, W. H., 2997
- Cox, C. E., 672, 3916g
- Cox, G. M., 4087
- Cox, J. A., 687k, 2407
- Cox, R. S., 3909
- C.P.V. Experiment Station,  
Indonesia, 4114
- Crafts, A. S., 56, 492, 510e,  
1541, 2252, 3228j, 3514
- Craig, H. A., 503, 2570c
- Crandall, B. S., 2988, 2989
- Crane, H. H., 234b
- Crane, J. C., 210, 2306, 2307,  
2308, 2344, 2345
- Crane, M. B., 3
- Crang, A., 234c, 3306
- Crawford, R. V., 795c
- Creech, J. L., 922
- Crenshaw, J. L., 3674y
- Cressman, A. W., 2947
- Creuzburg, U., 927h
- Crichton, M. I., 1894
- Crins, W. H., 2302
- Cripps, E. G., 3784
- Critchfield, H. J., 3777
- Crittenden, H. W., 3602
- Crook, E. M., 2742, 2743
- Cross, C. E., 3534
- Cross, F. B., 1434d
- Crossa-Raynaud, P., 3235
- Crosse, J. E., 2455
- Crossley, A., 2827, 3815
- Crowther, E. M., 1012
- Cruess, W. V., 2373
- Cruikshank, I. A. M., 1652
- Cruz, A. O., 2826
- Cruzado, H. J., 2088, 2537
- C.S.I.R.O., Australia, 2150
- Čudinova, A. N., 1659
- Cuenot, G., 927i, 2893
- Cuhno, D. F., 3355
- Cummings, G. A., 84, 1331f,  
2634
- Cunha Bayma, A., 1187j
- Cunningham, C. E., 1789e
- Cunningham, R. H., 107
- Cuny, L., 122, 3916h
- Curcio, M., 2751
- Currier, H. B., 2252, 3514
- Curtis, O. F., Jr., 3535, 3536
- Curtis, L. E., 1550
- Curtis, P. J., 2513
- Cuthbertson, J. D., 3270
- Cuthill, J. C., 2536d
- Cutkomp, L. K., 1725c
- Cutright, C. R., 3426, 3444
- Cvetkova, I. V., 1331i
- Dabral, S. N., 3831e
- Dacko, I. G., 949
- Daglish, C., 2415, 2416, 2417
- Daines, R. H., 1706
- Dakers, J. S., 3092
- Dale, W. T., 4059
- Dallyn, S. L., 3559g
- Dalmasso, G., 254, 255, 256,  
261, 262, 264, 300e, 1192,  
2386
- Danielson, L. L., 1500, 3539
- Danielsson, B., 78, 3248
- Danish, A. A., 1540d
- Dansk Gartnerforening, 2151
- Dantas, B., 2027
- (Danvig, A. M.), 2151
- Darby, J. F., 2747c
- Dark, S. O. S., 3781
- Darlot, A., 3220
- Darpoux, H., 3831f
- Darrow, G. M., 1402
- D(as), G. M., 3081
- Das Gupta, N. N., 4080e
- Davel, H. B., 2152
- David, A., 3485
- David, P. A., 2813
- David, W. A. L., 413, 2625
- Davidson, F. F., 2829
- Davidson, O. W., 896, 3890
- Davies, A. J., 1727
- Davies, D. A., 3227
- Davies, J. N., 3580
- Davies, R. G., 1497
- Davis, A. C., 752, 753
- Davis, A. N., 423
- Davis, B. H., 3559b
- Davis, D., 385
- Davis, E. A., 73, 1271
- Davis, G. E., 1603g
- Davis, G. N., 2607
- Davis, J. F., 1630, 2269, 2601,  
2634
- Davis, L. D., 1355
- Davis, L. H., 1900
- Davis, M. B., 124, 1400, 3233  
(Davis, M. B.), 1408
- Davis, T. A., 2033
- Davison, J. R., 190, 3308
- Davydov, P. N., 3458
- Day, B. E., 2252, 3514
- De, M. L., 4080e
- Dean, F. P., 2536g
- Dean, L. A., 1750
- Dean, R. W., 3429
- Dearborn, C. H., 1588, 1592,  
3550
- Debach, P., 2968d, 3940, 3942,  
3946
- Decker, G. C., 1688, 3481
- Decker, P., 2679
- Deems, R. E., 2702
- DeFrance, J. A., 1603h
- “De Lange Ossekampen”,  
2165, 3119
- Delap, A. V., 213
- Delbard, G., 103
- De Lotto, G., 3919
- Delperée, R., 3219
- Delwiche, C. C., 2753, 2768
- Demaree, J. B., 338, 2448
- Demel, J., 768f, 768g
- Denisen, E. L., 453
- Dennett, R. K., 3674f
- Dennis, R. W. G., 1209
- Deogun, P. N., 3809
- Dennison, R. A., 543
- Deonier, C. C., 423
- Deonier, M. T., 647
- Department of Agriculture for  
Scotland, 676, 3124, 3492t
- Dermen, H., 2283f, 2833
- Dermine, E., 2273, 2363
- De Rose, H. R., 2550, 3559h
- Derx, H. G., 3163
- Desflasseux, A., 411
- Deshusses, L.-A., 1324
- DeTar, J. E., 210
- Detroux, L., 393
- Deutscher Wetterdienst, 11, 14
- Dever, D. A., 3438
- Devine, E. S., 1679
- Dewey, A. W., 3761
- Dewey, D. H., 2366, 3625
- De Zeeuw, D. J., 2614
- Dhar, D. C., 3799
- Dhar, M. L., 3799
- Dhareshwar, S. R., 1019
- Dhillon, A. S., 1288
- Diachun, S., 2776
- Díaz, J. R., 166
- Díaz, M. A., 3023
- Dick, J., 2091
- Dickey, R. D., 237, 907, 1002,  
1007, 1008
- Dickey, R. S., 661
- Dickinson, D., 630, 2952
- Dickinson, J., 3880
- Dickson, R. C., 2708n, 2927,  
2942, 3963f
- Dietrick, E. J., 3940, 3946
- Dijkman, M. J., 2799
- Dike, H., 3080
- Dilatush, T. J., 1950c
- Diller, V. M., 1310, 2628
- van Dillewijn, C., 2082
- Dills, L. E., 553
- Dimitri, M. J., 916, 1937,  
3853
- Dimock, A. W., 840, 1900,  
2840, 2849, 3859, 3864

# INDEX OF NAMES

- Dimond, A. E., 2708g, 2846, 3195  
 van Dinther, J. B. M., 905, 3410  
 Directie van de Landbouw, Wageningen, 431j  
 Dirsh, V. M., 1860  
 Ditman, L. P., 2667  
 Division of Bacteriology and Dairy Research, Science Service, Department of Agriculture, Canada, 2158  
 Division of Chemistry, Central Experimental Farm, Fruit and Vegetable Products Research Committee, Ottawa, 2158  
 Division of Field Husbandry, Soils and Agricultural Engineering, Central Experimental Farm, Ottawa, 1215  
 Division of Fruit Insect Investigations, U.S. Department of Agriculture, 365  
 Division of Horticulture, Central Experimental Farm, Ottawa, 1216  
 Division of Horticulture, Central Experimental Farm, Low Temperature Investigations, Storage Laboratory, Ottawa, 2158  
 Division of Special Surveys, U.S. Department of Agriculture, 2365  
 Division of Weed Investigations, U.S. Department of Agriculture, 3495  
 Dixon, T. V., 2268  
 Dodds, H. H., 4080f  
 Dodds, K. S., 768h  
 Doehlert, C. A., 300f, 314, 2438  
 Doery, A. C., 1586  
 Doesburg, J. J., 1723  
 Doidge, E. M., 1193  
 Doman, N. G., 1278  
 Domato, J., 1993  
 Dominick, C. B., 790  
 Dominik, T., 3284  
 Domrovskaja, M. V., 3929  
 Donaldson, J. H., 3065  
 Doney, C. F., 920  
 Donnelly, M., 2905  
 Doolittle, S. P., 569, 3604  
 Doorenbos, J., 2860, 3916i, 3916j  
 van Doren, A., 218, 232  
 Dormer, K. J., 2615  
 Dorough, G. D., 3228k  
 Dorst, J. C., 4153e  
 Douglas, A., 510s  
 Douth, R. L., 3884  
 Dovaston, H. F., 687l  
 Dow, P., 2665  
 Downie, W. A., 765  
 Dowson, W. J., 1787, 2732  
 Doxey, D., 2240  
 Dozier, B. H., 3427  
 Drake, M., 2332  
 Drake, R. J., 2926  
 Dried Fruit Processing Committee, 3309  
 Driggers, B. F., 1489, 3434  
 Drobkov, A. A., 83  
 Drosdoff, M., 1003, 1006, 1008, 2964  
 Drouzy, J., 576  
 Drummond, O. A., 2931  
 D.S.I.R., London, 234d  
 D.S.I.R. New Zealand, 1221  
 Du Chanois, F. R., 1502, 3433  
 Ducharme, E. P., 1985, 2930  
 Ducke, A., 2283g  
 Ducret, G., 629  
 Dudley, J. E., Jr., 2626, 3593  
 Dufournet, R., 1064, 1187k  
 Duhanin, K. S., 1335  
 Duka, V. I., 687m  
 Dumonthay, J., 1725d  
 Duncan, D. A., 2546  
 Duncan, T. E., 452  
 Dunegan, J. C., 2421, 2445  
 Dunn, E., 3724h  
 Dunn, J. A., 3594  
 Dunton, E. M., Jr., 1743  
 Dupouy, L., 3585  
 Durmišidze, S. V., 2418e  
 Dury, R., 102  
 Dutton, W. C., 1545, 1574  
 van Duuren, A. J., 3797  
 Duval, G., 3773  
 Dyar, M. T., 2224  
 Dye, S. L., 3211  
 Dyer, P. R., 632  
 Dyer, R. A., 2153  
 Džaparidze, L. I., 1846  
 Eadie, W. R., 3447  
 Eames, A. J., 2247  
 Easley, T., 478  
 East Africa High Commission, 2154  
 East African Agricultural and Forestry Research Organisation, 4115  
 Easterbrook, B., 468  
 East Malling Research Station, 3108  
 Eastman, R. H., 1870c  
 Eastwood, H. W., 3972  
 Eastwood, T. M., 3891  
 Eaton, E. L., 2377  
 Eaton, J. K., 1497  
 Eaton, S. V., 2692  
 (Eaves, C. A.), 2158  
 Ebeling, W., 1194  
 Ebes, K., 3979  
 "Edde", 323  
 Eddie, A. H., 252  
 Eddins, A. H., 687x  
 Edelman, C. H., 4089  
 Edelman, J., 2707  
 Edgerton, L. J., 319, 3236, 3298  
 Edgington, G., 2257  
 Edinburgh School of Agriculture, 1331g, 4153f  
 Edmundson, W. C., 1730  
 Edwards, C., 2901  
 Edwards, E. E., 3875  
 Edwards, F. I., Jr., 1536, 1717  
 Edwards, G. R., 1653, 1654, 1736, 1774, 3667  
 Edwards, R. L., 2190  
 van Eek, T., 2725  
 Eggert, F. P., 2375h  
 Eggman, L., 2749  
 Egler, F. E., 510f  
 Egorova, V. I., 3266  
 Ehrenberg, M., 45  
 Ehrenhardt, H., 3420, 3851  
 Eide, P. M., 3571  
 Eideljant, N. M., 3606  
 Einsel, J., 134, 145  
 Eiselt, M., 1195  
 Eisenmenger, W. S., 92  
 Ekdahl, W. G., 1858  
 Elagin, I. N., 3312g  
 Eldredge, D. B., 84  
 Elgueta, M., 1063  
 Eljgort, S. G., 1973  
 Elle, G. O., 688t  
 Ellengorn, J. E., 3164  
 Ellenwood, C. W., 193  
 Elliott, M., 1540e  
 Elliott, R., 3969  
 Ellis, D. E., 2657  
 Ellis, N. K., 482  
 Ellis, T. O., 1746, 1964  
 Ellison, J. H., 1590, 3557  
 Elmer, O. H., 2670  
 Elsocht, P., 813  
 (Elsocht, P.), 1225  
 Elwell, H. M., 505  
 Emanuelli, A., 492  
 Embleton, T. W., 176, 313  
 van Emden, J. H., 1180, 1187s, 3977, 4070  
 Emerson, F., 2470  
 Emerson, O. H., 3963g  
 Emilsson, B., 1737, 1738, 1767  
 Emmert, E. M., 664  
 Emsweller, S. L., 2835, 3916k  
 Endô, Y., 1454  
 Engel, R. E., 1603i, 3545  
 English, L. L., 3849, 3894  
 Ennis, W. B., Jr., 1328, 1544  
 Enser, K., 395

# INDEX OF NAMES

- Entomological Branch, N.S.W.  
Department of Agriculture, 380, 533, 789, 982, 2584, 3944, 4153g
- Epps, W. M., 570, 3582
- Epstein, E., 3649
- Eremeev, G. N., 3928
- Erickson, L. C., 483, 1970, 2921, 2922
- Erneholm, I., 1196
- Ernst, A., 927j
- Ernst, A. J., 3792
- Esajan, G. S., 1698
- Esdorn, I., 3802
- Essig, E. O., 687z
- Etchells, J. L., 3579
- Eunus, A. M., 1913
- Evans, H., 1026
- Evans, H. J., 2213
- Evans, W. D., 719
- Evdokimova, T. P., 3196, 3197
- Everett, P., 599, 1992, 3956
- Everist, S. L., 1603j, 3559i
- Evreinoff, V. A., 162, 234e, 241, 2286, 2956, 3243
- Evreinoff, (V. A.), 3354
- Ewart, W. H., 987
- Eyre, P. W., 4101
- Ezell, B. D., 3639
- Faan, H. C., 2708h, 2708i
- Faccini, G. C., 2196
- Fager, E. W., 3165
- Fahey, H. N., 1957
- Fahey, J. E., 1534
- Fahn, A., 1376
- Fairbairn, J. W., 3798
- Fairing, J. D., 1540f
- Faldi, G., 2494
- Fancher, L. W., 1529
- Fankuchen, I., 3762c
- Faraday Society, 1197
- Farley, A. J., 3312h
- Farmer, R., 1880
- Farmer, V. C., 2205
- Fassuliotis, G., 1772, 2735
- Faulkner, F. S., 423
- Faulkner, R. P., 2117
- Fay, B. D., 3082
- Federer, W. T., 2283e
- Fedorov, A. A., 3907
- Fedorov, M. A., 153
- Fedorov, M. V., 3174, 3587
- Feinstein, L., 1799, 3730, 3758, 3762d
- Feldmesser, J., 1772, 2735
- Felix, E. L., 2520
- Fenjves, P., 2643
- Fennah, R. G., 2011
- Fenton, F., 1951
- Fenwick, D. W., 768i
- Ferauge, M. T., 3357a
- Fernandez, G. B., 1815e
- Fernández Artiles, R., 1161
- Fernandez-Caldas, E., 1331j
- Fernández Pérez, J., 1161
- Fernández Valiela, M. V., 721, 1974
- Fernando, L., 1040
- Fernie, L. M., 1051
- Fernow, K. H., 3682
- Féron, —, 2536h, 2536i
- Ferraguti, A., 3370
- Ferrer, R., 3516
- de Ferrière, P. J. J. F., 280
- Ficht, J. P., 455, 2545
- Fidler, J. C., 226, 230, 1719, 2372
- Fiedler, O. G. H., 2051
- Fielding, A. H., 2206
- de Figueiredo, E. R., Jr., 3412
- Figueroa P., A., 2704
- Fiji Department of Agriculture, 4153h
- Fileni, E., 2810
- Filho, H. A., 2041, 2111e, 2111f
- Fillmore, R. H., 1927, 2878
- de Fina, A. L., 6, 16
- Fink, H. C., 2464
- Finn, T. P., 2539, 3549
- Fischer, C. W., Jr., 842, 843, 847, 927k
- Fischer, H., 390, 3492j
- Fischnich, O., 1200
- Fisher, C. E., 508
- Fisher, D. J., 3157
- Fisher, D. V., 307
- Fisher, E. G., 189
- Fisher, F. E., 984, 988, 2946
- Fisher, T. W., 3963d
- Fisher-Webster, K., 3964
- Fitzpatrick, R. E., 3387
- Flanders, S. E., 2936, 2968e
- Fleming, H. K., 665, 2382
- Fleming, W. E., 2489, 2886
- Flemion, F., 625, 3770, 3771
- Flerov, A. F., 64
- Flerov, V. A., 64
- Fleschner, C. A., 3940, 3946
- Flock, R. A., 2927, 3963f
- Florida Agricultural Experiment Stations, 1222
- Florida, University of, 2832p
- Flovik, K., 707
- de Fluiter, H. J., 687n
- Fluke, C. L., 3438
- Fogg, G. E., 59
- Fogle, H. W., 2294
- Foister, C. E., 431k
- Foll, S. C., 2872
- Folley, R. R. W., 2118
- Folquer, F., 2671
- da Fonseca, J. P., 999
- Food and Agriculture Organization of the United Nations, Washington, 2155, 2156, 4035
- Footo, F., 2899
- Forestry Commission, 1470
- Forsee, W. T., Jr., 952, 2616
- Forster, R., 782
- Forster, W. A., 3651
- Fort Vermilion Dominion Experimental Substation, 2157
- Foskett, R. L., 615
- Foss, H., 712
- Foster, A. C., 3478
- Foster, C. B., 3052
- Foster, J. W., 1198
- Foster, R. E., 2599
- Foutenot, J. F., 642
- Foury, M., 3253
- Fowler, D. L., 2653
- Fox Wilson, G., 2119
- Foytik, J., 2375i
- Fraga, C. G., Jr., 777
- Fragata Junior, A. A., 1086
- Frahm-Leliveld, J. A., 1295
- Franck, J., 3165
- Franco, C. M., 95, 527, 1055, 1057, 2050
- Franco, R. M., 3088e
- Frandsen, N. O. C., 927l
- Frank, E. M., 3211
- Franklin, D. F., 199
- Franklin, H. J., 1401, 3417
- Franklin, M. T., 1480
- Franssen, C. J. H., 2057, 2976
- Fraselle, J. V., 3029
- Fraser, G. K., 1950d
- Fraser, G. R., 459
- Fraser, L., 1980, 2934
- Frazier, N. W., 3388
- Fredriksson, L., 1748
- Freed, V. H., 1553
- Freeland, R. O., 2230
- Freeman, J. A., 3618
- Frei, E. H., 3224
- Freiberg, S. R., 3509
- French, B. O., 1339, 2356
- French, C. S., 2229
- Frew, S., 3218
- Frey, W., 1629
- Freyre, R. H., 926
- Frezal, P., 3390
- Frick, E. L., 2526
- Fried, J., 1824
- Friedman, B. A., 763
- Friend, W. H., 2968f
- Friesdorf Horticultural Research Station, 4116
- Friesen, H. A., 2570d
- Frith, H. J., 1969
- Fritzsche, R., 198, 1438, 2333, 3292
- Froeschel, P., 796
- Frontou, G., 1101
- The Fruit Grower, 4117
- Fruit and Vegetable Products Laboratory, Kentville, N.S., 2158



# INDEX OF NAMES

- Fruit and Vegetable Products Laboratory, Morden, 2158  
 Fruit and Vegetable Products Laboratory, Summerland, B.C., 2158  
 Fruit and Vegetable Products Research Committee, Department of Agriculture, Canada, 2158  
 Fruit and Vegetable Products Research Committee, Division of Chemistry, Central Experimental Farm, 2158  
 Fry, P. R., 687o  
 Fuchs, H., 3848  
 Fugget, K. A., 1011a  
 Fujimoto, G., 2008  
 Fujita, T., 1331h  
 Fukuda, A., 191  
 Fukuda, J., 2943  
 Fukushima, E., 538  
 Fukushima, S., 2301  
 Fulmer, F., 2913  
 Fulmer, R. S., 3492x  
 Fulton, H. G., 3674g  
 Fulton, H. R., 2421  
 Fulton, J. P., 637, 2700  
 Fulton, N. D., 2700  
 Fulton, R. A., 536, 2591, 3852, 3883, 3885  
 Fulton, R. W., 788, 2769  
 Fults, J. L., 1752  
 Fungicide Committee, American Phytopathological Society, 403  
 Futral, J. G., 452  
 Gabel, J. L., 2784  
 Gadd, C. H., 2120  
 Gaffron, H., 3165  
 Gaignaux, D., 2064  
 Gaiser, L. O., 1950e  
 Galinat, W. C., 2664  
 Gallay, R., 341, 1485  
 Galston, A. W., 1268, 2283h, 3171, 3172  
 Gambrell, F. L., 1481, 1928  
 Gandeljman, C. S., 768j  
 Gandhi, S. R., 1074  
 Gangolly, S. R., 1203, 4012  
 Gangstad, E. O., 3022  
 Ganguli, P. M., 836c  
 Garbosky, A. J., 6  
 Garcés O., C., 3228 l, 3358, 3682  
 Garcia, R. C., 3446  
 Gardiner, B. O. C., 413, 2625  
 Gardner, L. R., 1531  
 Gardner, M. W., 2695  
 Gardner, R., 1745, 3686  
 Gardner, V. R., 4090  
 Garese, P., 580, 2110  
 Garman, P., 1488  
 Garner, R. J., 155, 2315, 2317  
 Garnett, C. B., 2111g  
 Garton, J. E., 3490  
 Gasser, R., 369, 370  
 Gaston, H. P., 2276, 3299  
 Gastrock, E. A., 821  
 Gäumann, E., 722, 1920  
 Gavrilov, N. V., 159  
 Gayford, G. W., 327, 1360, 1399e, 3312i  
 Geering, J., 3383  
 Geering, Q. A., 3594  
 Geeroms, A., 393  
 Geier, P., 1498, 1507  
 Geisler, E., 414  
 Geissman, T. A., 2839, 2850  
 Genkelj, P. A., 33, 1331i  
 Gentile, G., 3312j  
 George, J., 2108  
 Georgia Experiment Station, 3109  
 Georlette, R., 807, 812, 3228m, 3570  
 Gérard, M., 846  
 Gerlach de Urhan, M., 3010  
 Germ, H., 517, 635  
 Gerritsen, C. J., 2295, 2409  
 Gersdorff, W. A., 1850  
 Gerstein, L. A., 3803, 3959  
 Gerstel, D. U., 836d  
 Gertsch, M. E., 509, 1599  
 Gervais, C., 572  
 Ghisleni, P. L., 1622  
 Ghosh, B. P., 775  
 Gianfagna, A. J., 3891  
 Giannotti, O., 1065  
 Gibb, J. A. C., 3788  
 Gibbens, R. T., Jr., 499  
 Gibberd, A. V., 1030  
 Gibson, K. E., 751 -  
 Giddings, N. J., 3662  
 Gieser, A., 454  
 van der Giessen, C., 1015  
 Giffen, R. N., 1608  
 Gigante, R., 2428, 3753  
 Gilbert, F. A., 251, 1595  
 Gilbert, J. C., 1919  
 Gilbert, S. G., 3960  
 Giles, J. E., 1702  
 Giljdiev, S. A., 278  
 Gill, D. L., 1931  
 Gill, R. F., 3158  
 Gille, A., 924  
 Gilliland, H. B., 1944  
 Gillis, J., 1331j  
 Gilmer, R. M., 2443  
 Gilmore, A. E., 2279, 3249  
 Gilmore, J. U., 2789  
 van Gils, G. E., 1094, 4029  
 Giordano, B., 1953, 3312k  
 Giraud, E., 3762e  
 Gisevius, R., 3265  
 Gjaerum, H. B., 3394  
 Glass, E. H., 1540g  
 Glavinić, R., 2685  
 Glendenning, R., 2739, 3674g  
 Glenn, E. M., 2410  
 G(lover), P. M., 1175, 2111h  
 Gluščenko, I. E., 706  
 Gluščenko, N. N., 809  
 Gnedčik, P. V., 121  
 Goddard, J. H., 4091  
 Godfrey, G. H., 1636  
 Godnev, T. N., 3280  
 Godoy, C., Jr., 711, 3958  
 de Godoy Passos, H., 4080g  
 Goffart, H., 1773  
 Gogin, A. F., 2361  
 Gogoi, T., 1079  
 Goidanich, G., 1435, 1725e, 2950  
 Gokhale, N. G., 4080h  
 Goldin, M. I., 3660  
 Goljdina, S. M., 3826  
 Goldschmidt, V. H., 213  
 Goldsmith, E. P., 1945  
 Gollmick, F., 1466  
 Golubinskii, I. N., 814, 1372  
 Gomez Quiroga, F., 3088f  
 Gondo, A., 2079  
 Gonggrijp, J., 3519  
 González, C. A., 4008  
 Gonzalez, L. G., 2897  
 González O., C., 3996  
 González Lugo, E., 1916  
 González Mendoza, R., 2977  
 Gonzalez Rios, P., 1106  
 Good, H. M., 3831g  
 Goodchild, N. E., 3526  
 Goodey, J. B., 2864, 3874  
 Goodijk, J., 2198  
 van de Goor, G. A. W., 1598  
 Gopalan, K., 2991  
 Gorbatjuk, D., 175  
 Gorbea, O., 3002  
 Gordon, S. A., 2210, 2283i  
 Gorodskaja, O. S., 778, 1815a  
 Gorrie, R. M., 1039  
 Gorter, C. J., 3656  
 Gortner, W. A., 2234  
 Gorton, B. S., 2901  
 Goss, R. W., 739  
 Gossweiler, J., 1013, 4080i  
 Gottlieb, D., 3456  
 Gouck, H. K., 2708b  
 Gouguenheim, M. R., 2490  
 Gould, C. J., 735, 882, 1896, 1903, 2865  
 Gould, P. H., 1336  
 Gould, W. A., 1784  
 Gourlay, W. B., 1926  
 Gouvernement Général de l'Algérie, 1399f  
 Goven, M., 1789e  
 Govindan, P. R., 1707  
 Govindarajan, S. V., 685  
 Govindarajan, V. S., 1076  
 Govindaswami, S., 1021

# INDEX OF NAMES

- Govindu, H. C., 1929  
 Grace, N. H., 836e  
 Graf, A., 702  
 Grafi, I., 1950f  
 Graham, S. O., 331  
 Graham, T. W., 2783  
 Grainger, J., 728, 2734  
 Granhall, I., 3366  
 (Granhall, I.), 1212  
 Granick, S., 3228n  
 Granovsky, A. A., 1782, 1783  
 Grant, T. J., 969, 970, 971,  
 2928, 2929, 3932  
 Grant, V., 1377  
 Grau, F. V., 1603k, 3559j  
 Graves, A. H., 2404, 2418f  
 Graves, G., 156, 1934  
 Great Britain, Parliament, 836f  
 Grebenščikov, I., 561  
 Grečušnikov, A. I., 3709, 3710  
 Green, K. R., 506, 2543  
 Green, R. J., 3807  
 Greenham, C. G., 433, 440  
 Greenham, D. W. P., 2331  
 Greenwood, M., 3980  
 Greenwood, M. L., 755  
 Gregory, F. G., 1260  
 Gregory, P. H., 1756  
 Gregory, R. L., 19  
 (Greig, A. M. W.), 1234  
 Greig, J. L., 1244e  
 Greninger, D. M., 3012  
 Greulach, V. A., 1677  
 Greven, C., 3042  
 Gridgeman, N. T., 2283j  
 Gries, G. A., 2730  
 Griffiths, A., Jr., 878  
 Griffiths, D. G., 1398  
 Griffiths, J. T., 988, 3947  
 Griffiths, J. T., Jr., 989, 2946  
 Griggs, W. H., 210, 1373, 2312  
 Grigsby, B. H., 1543, 1575,  
 3542  
 Griot, M., 1504  
 Grison, P., 1436  
 Grob, H., 370  
 Grogan, R. G., 633  
 Gromobaja, E. F., 2462  
 Groningen Agricultural Re-  
 search Station and Soil  
 Science Institute, T.N.O.,  
 4118  
 Grosjean, J., 2419, 2468  
 Gross, C. R., 3302  
 Grossbard, E., 3450  
 Groves, A. B., 3401  
 Groves, J. R., 3093  
 Groves, K., 420  
 Gruševoi, S. E., 787  
 Guard, A. T., 2300  
 Guenot, —, 2403  
 Guenther, E., 2832f  
 Guha, M. P., 1870b  
 Guha, P. C., 1870h  
 Guillemain, R., 2890  
 Guillou, R., 2536j  
 Gukasjian, A. S., 300g, 1447  
 Gukasov, A. I., 282  
 Gulval Experimental Station,  
 2159  
 Gunckel, J. E., 917, 3916r,  
 3916s  
 Günthart, E., 1526  
 Gunther, F. A., 2832g  
 Gupal, P. I., 58  
 Gupta, B. D., 2092  
 Gupta, S. S., 3812  
 Gurlev, A. S., 523  
 Guseva, A. R., 1839  
 Gustafsson, N., 1738, 1767  
 Guthrie, F. E., 1540h  
 Guyer, R. B., 3589  
 Guyot, H., 931  
 H., B., 563  
 De Haan, I., 1092, 2860  
 de Haan-Homans, L. N. S.,  
 3050, 4029, 4030  
 Haas, A. R. C., 968, 2912, 2914  
 Haasis, F. A., 2657  
 Haber, E. S., 687f, 687p  
 Hackett, D. P., 1291  
 Hadfield, M., 912  
 Hadiwidjaja, T., 1877, 2803,  
 3086  
 Hafenrichter, A. L., 3345  
 Hafiz, A., 349  
 Hagan, R. M., 1703  
 Hagedorn, D. J., 2708j, 3674h  
 Hageman, R. H., 1533, 1870d,  
 2820, 2821  
 Hagen, C. E., 1302  
 Hagiwara, J., 628  
 Hagiya, K., 520, 636  
 Hagler, T. B., 108  
 Hagood, E. S., 498  
 Hagsand, E., 2551  
 The Hague, Rijkstuinbouw-  
 voorlichtingsdienst, 2180  
 Hahmann, K., 864, 3414, 3577  
 Hahn, H., 109m  
 Hahn, P., 3556  
 Håkansson, R., 109h  
 Hall, B. A., 2887j  
 Hall, C. B., 3674i  
 Hall, E. G., 2951  
 Hall, J. W., 235  
 Hall, M. D., 1826  
 Hall, N. S., 281  
 Hall, S. A., 1540i, 2591  
 Hall, T. D., 1947, 1948  
 Halleck, F. E., 596  
 Hallemans, A., 1596  
 Haller, H. L., 1540j  
 Haller, M. H., 2531  
 Halliday, D. J., 3503  
 Halsey, L. H., 3654  
 Hamaguchi, K., 2960  
 Hamaguti, N., 1845  
 Hamilton, A., 1496  
 Hamilton, D. W., 2506  
 Hamilton, J., 1008  
 Hammar, H. E., 2406, 2569  
 Hamner, C. L., 74, 489, 1603d,  
 3194  
 Hamner, K. C., 3229f  
 Hampton, R. N., 3695  
 Haney, T. G., 1810  
 Hanf, M., 3559k  
 Hanna, A. D., 1492  
 Hannan, P. J., 3730, 3758  
 Hänni, H., 730  
 Hanninen, P., 3228o  
 Hannon, C. I., 2701  
 Hansch, C., 3228z  
 Hansen, C. M., 2634  
 Hansen, E., 2357  
 Hansen, H. N., 911, 925  
 Hansen, H. R., 3359  
 Hanson, C., 3462  
 Hao, C., 4045  
 Harada, M., 1868, 1869  
 Hard, M. M., 687b  
 Hardenburg, E. V., 764  
 Hardy, D. E., 3492k  
 Hardy, E., 3772  
 Hardy, F., 1116  
 Hardy, J., 2121  
 Hardy, M. B., 2405  
 Hardy, S. K., 836g  
 Hare, W. W., 2708k  
 Harler, C. R., 1172, 1173,  
 1177, 2111i, 4065, 4080j  
 Harley, C. P., 202  
 Harley, J. L., 1331k  
 Harmon, F. N., 2396  
 (Harper, G. S.), 2158  
 Harper, J. L., 2012, 2514  
 Harrington, A. H., 3818  
 Harris, F. J. T., 630, 2952  
 Harris, G. H., 2383, 3618  
 Harris, G. S., 3913  
 Harris, H., 1427  
 Harris, R. V., 2447  
 Harris, R. W., 319, 1354  
 Harris, T. H., 1540k  
 Harris, V. C., 445, 469  
 Harris, W. B., 348, 363, 1392,  
 3362  
 Harrison, A. L., 2686, 3662  
 H(arrison), C. J., 1175, 1865  
 Hartman, J., 3674i  
 Hartley, G. S., 3492l  
 Hartman, R. T., 2245  
 Hartmann, G., 1201  
 Hartmann, H. T., 207, 2309,  
 2310  
 Hartsema, A. M., 3876  
 Hartt, C. E., 3058  
 Hartzell, A., 427, 1535  
 Harvard University, Boston,  
 Mass., 2193c

# INDEX OF NAMES

- Harvey, J. M., 911  
Harvey, M. H., 755  
Harvey, W. A., 1541  
Hase, A., 1658  
Haskell, D., 2858  
Haskell, G., 1687, 2122, 2665  
Haskell, R. J., 645  
Haskins, G., 321  
Haslam, R. J., 774, 776, 1791  
Hasler, A., 90  
Haslett, E., 1728  
Hassan, Z., 2283v  
Hatcher, E. S. J., 2315  
Hatfield, M. R., 3706  
Hatt, P., 1324  
Hauer, A., 2283k  
Hauman, L., 4092  
Haun, J. R., 3904  
Hauschild, I., 3698  
Hauser, E., 1665, 1668, 1669  
Hauszer, K., 3228p  
Havard Duclos, B., 1185  
Havas, L. J., 80  
Havis, A. L., 3407  
Havis, J. R., 446, 2564, 3541  
Havis, L., 208, 215, 2289  
Hawaii Agricultural Experiment Station, 3110  
Hawker, L. E., 2123  
Hawkes, A. D., 1917, 1918  
Hawley, I. M., 2489  
Haworth, F., 2100, 2101  
Haxo, F., 1661  
Hay, R., 257  
Hayashi, K., 880, 1950g, 1950h  
Hayfron, R. J., 3980  
Hayne, D. W., 1510  
Haynes, D. W. M., 1187d  
Hayter, C. N., 2160, 3616, 3672  
Hayward, H. E., 1304  
Heagy, A. B., 442  
Heal, R. E., 1849  
Heath, O. V. S., 1266, 1672  
Heck, W. W., 1312  
Hedrick, U. P., 3094  
Hefer, S. V., 475  
Heiberg, B. C., 3402  
Heim, R., 4010  
Heinig, K. H., 2887k  
Heinze, K., 747, 1776, 3380  
Heiser, C. B., Jr., 2828  
Heit, C. E., 239  
van Hell, W. F., 1087, 4074, 4106  
(Hellyer, A. G. L.), 3097  
van der Helm, G. W., 2651  
Helson, G. A. H., 785, 3717  
Hely, P. C., 986  
Hemming, H. G., 2513  
Hemphill, D. D., 662, 3357b, 3538  
Henaio, J. J., 3002  
Henderson, A. F. C., 545  
Henderson, C. F., 535  
(Henderson, M. R.), 1244h  
Henderson, R. G., 3762f  
Henderson, V. E., 3724b  
Hendricks, R. H., 1308  
Hendrickson, A. H., 181, 184, 1433  
Hendrickx, A., 3887  
Hendrix, J. W., 3841, 3842  
Henriet, J., 510g, 1870e, 3559 1  
Henry, A. J., 1870f  
Hensill, G. S., 1531  
Hernandez, T. P., 642, 3507, 3555  
Herout, V., 1870g  
Herr, F., 1383  
Herre, H., 4094  
Herrell, W. E., 398  
Herrero, J., 3251, 3259  
Hes, J. W., 1098  
Heslep, J. M., 3624  
Hesse, C. O., 144, 2312, 2319, 2329  
Hester, J. B., 584, 585, 687q, 2674  
Heuberger, J. W., 3712  
Hewitt, E. J., 1313, 1611, 3203, 3574, 3652, 3674j  
Hewitt, W. B., 342  
Hey, G. L., 1670, 3187, 3188  
Hibbard, A. D., 2350, 3357b  
Hibon, E., 1833  
Hidalgo Fernández-Cano, L., 2402, 3339  
Hield, H. Z., 964  
van Hiele, T., 2369  
Higdon, R. J., 325  
Higgins, K. B., 3285  
Higley, J. C., 531  
Hilborn, M. T., 2518, 2536k  
Hildebrandt, A. C., 2267  
Hilditch, T. P., 795c, 1184, 2218, 2827, 2832h, 3812, 3815, 3819  
Hildreth, A. C., 3895  
Hilgeman, R. E., 3930  
Hilkenbäumer, F., 3254  
Hill, A. V., 784  
Hill, C. H., 3439  
Hill, G. R., 1308  
Hill, H., 309, 1386  
Hill, H. E., 3314  
Hillemann, H., 1628  
Hillenbrand, E. F., Jr., 3492m  
Hillier, J., 2281  
Hills, K. L., 836h  
Hills, L. D., 3095  
Hillsborough Agricultural Research Institute, N. Ireland, 1244a  
Hilton, R. J., 719, 1608, 2718  
Hilty, W. W., 2832i  
van Himbeek, C., 518  
Hinkle, D. A., 92  
Hinman, F. G., 1646  
Hino, I., 1950i  
Hinselmann, M., 3397  
Hintze, S., 514, 3674v  
Hirai, K., 311  
Hirane, S., 1822  
Hiraoka, T., 628  
Hiratsuka, N., 1472  
Hirayama, S., 1805  
Hirschhorn, E., 11871  
Hirshfeld, F. L., 3224  
Hirst, E. L., 3312f, 3831h  
Hitchcock, A. E., 462, 1603 1, 3184, 3189, 3294, 3551, 3886  
Hitchins, P. E. N., 1725f  
Hitska, J., 311  
Hoadley, A. D., 584, 585  
Hoare, E. R., 219, 1318, 1679, 3867  
Hobart, O. F., Jr., 2464  
Hobbes, J. C., 2006  
Hobbs, G., 25361  
Hobbs, J. A., 88  
Hoblyn, T. N., 2321  
Hochapfel, H., 3250  
Hocking, B., 172  
Hockett, R. C., 2076  
Hodge, W. H., 3673, 4017  
Hodgson, J. M., 456, 464  
Hodgson, R. W., 930, 947, 2889  
Hoed, F., 813  
(Hoed, F.), 1225  
Hoeffelman, H., 4080m  
Hoff, P. R., 3695  
Hoffman, J. C., 2616  
Hoffman, J. R., 2655  
Hoffman, M. B., 3234, 3291, 3298  
Hoffmann, A., 877, 3428  
Hoffmann, E., 1526  
Hoffmann, P., 3404  
Hofmaster, R. N., 1500, 3539  
Hogan, W. D., 2694  
Hogsett, J. N., 3492m  
Holdaway, F. G., 1725c  
Holdeman, Q. L., 2783, 2792a  
Holden, M., 2762, 2763, 2764, 2765, 2766  
van Holder, J., 1872  
Holdsworth, M., 1672  
Holgate, K. C., 2832j  
Hollis, J. P., 739  
Holley, W. D., 1880  
Holmberg, G., 699  
Holmes, E., 3498  
Holmes, F. O., 2792b  
Holodnyi, N. G., 39, 965  
Holt, A. S., 2229  
Holtum, R. E., 892  
Homes, M. U., 3228q  
van den Honert, T. H., 55  
Hong Kong Senior Agricultural Officer, 3111



# INDEX OF NAMES

- Honig, P., 1095  
 Honnorat, —, 2403  
 van Hoof, H. A., 2714, 2726, 2822  
 Hooker, W. J., 733, 1768, 2747a  
 (Hope, G. W.), 2158  
 Hopf, P. P., 3187, 3609  
 Hopkins, E. F., 993, 1997  
 Hopkins, H. T., 76  
 Hopkins, J. C. F., 1460, 2161, 3676  
 Hopp, R., 438, 516, 687r  
 Horn, E. F., 3995  
 Hornbostel, W., 1457  
 (Horne, F. R.), 2171  
 Horsfall, J. G., 2519  
 Horspool, R. P., 2924  
 Horticulture Division, New Zealand Department of Agriculture, 304  
 Horton, F. F., 3857  
 Hoskins, W. M., 1532  
 Hoste, J., 1331j  
 Hotchkiss, J. E., 3525  
 Hotin, A. A., 3808  
 Hotta, T., 1348  
 Hough, L. F., 2311, 2536s  
 Hough, W. S., 3439, 3483  
 Houghoudt, S. B., 3684  
 Houghland, G. V. C., 715  
 Houtman, G., 529, 2467, 2492  
 Howard, H. W., 768b, 3630  
 Howard, J., 1387  
 Howe, W. L., 1639, 1640  
 Howes, F. N., 1837  
 Howland, A. F., 2642, 3668  
 Hoyman, W. G., 2747b  
 Hsu, K. H., 1115  
 Hubbard, E. S., 223  
 Hockett, H. C., 3597  
 Hudon, M., Jr., 687s  
 Hueck, H. J., 3492n  
 Huelsen, W. A., 2602  
 Huffaker, C. B., 3408  
 Hughes, C. G., 1152, 1153, 3071, 4039  
 H[ughes], C. G., 1154  
 Hughes, G. K., 800  
 Hughes, H., 4093  
 Huglin, P., 273, 343, 2401, 2476  
 Hugo, J. F. du T., 1337  
 Hulburt, W. C., 84, 101  
 Hulme, A. C., 2304, 2338, 2370, 3304  
 Hume, E. P., 926  
 Hummel, F. C., 3228r  
 Hummer, R. W., 3513  
 Humphries, E. C., 1311  
 Hunter, A. S., 1788  
 Hunter, A. W. S., 78, 124, 301  
 Hunter, H., 3096  
 Hunter, J. A., 3217  
 Hunter, R. F., 75  
 Hunziker, A. T., 3674k  
 Hunziker, J. H., 927m, 927n  
 Hurcombe, R. E., 1941, 1942  
 Hussain, M. Z., 1166  
 Hutchinson, P. B., 4059  
 Hyde, E. O. C., 457  
 Hygen, G., 2232  
 Ibbotson, A., 27081  
 Ibragimov, G. R., 652  
 Icart, A., 1504  
 Ide, L. E., 3589  
 I.F.A.C. (Institut des Fruits et Agrumes Coloniaux), 1023  
 Ignatieff, V. (Editor), 2124  
 Ignatjev, B. D., 902  
 Iijima, T., 577  
 Iljin, G. S., 781  
 Iljinskiĭ, A. A., 141  
 Iljuščenko, K. L., 135  
 Illinois Agricultural Experiment Station, 4119, 4120, 4121  
 Imamura, S., 1267, 2080  
 Indian Agricultural Research Institute, New Delhi, 3112  
 Indian Central Sugarcane Committee, 1223  
 Indian Coffee Board, 3113  
 Indian Council for Agricultural Research, 4122  
 Indian Tea Association, Tocklai, 1224, 3114  
 Indonesia C.P.V. Experiment Station, 4114  
 I.N.E.A.C., Institut national pour l'étude agronomique du Congo belge, 4123  
 Inforzato, R., 1057, 1058, 1187m  
 Ingelström, E., 872  
 Ingham, G., 1254  
 Inglez de Sousa, J. S., 3329  
 Ingram, C., 910  
 Ink, D. P., 2390  
 Innes, R. F., 1119, 1126  
 Inniss, B. de L., 1103  
 Inoue, Y., 1950i  
 Institut des Fruits et Agrumes Coloniaux [I.F.A.C.], 1023  
 Institut National Belge du Houblon, 1225  
 Instituut voor Bewaring en Verwerking van Tuinbouwproducten, Wageningen, 224  
 Instituut voor Tuinbouwtechniek, Wageningen, 1226  
 Iowa Agricultural Experiment Station, 1227  
 Irabagon, T. A., 2708e  
 Irish, C. F., 906  
 I.R.S.I.A. (Institut pour encouragement de la recherche scientifique dans l'industrie l'agriculture), 2162, 4124  
 Isaacs, R. L., Jr., 2674  
 Isenberg, F. M., 521  
 Isenberg, F. M. R., 3611, 3674p  
 Ishida, J., 3969  
 Ishiguro, K., 649  
 Islip, H. T., 1828, 1830, 1840, 1844, 2805, 2825  
 Ivanov, S. M., 3961, 3962  
 Ivanov, V. V., 3603, 3830  
 Ivanova, B. I., 3961  
 Ivanovskaja, T. L., 670  
 Ivanovskii, D. I., 2774  
 Iwasaki, T., 2898  
 Iwata, Y., 1637  
 Iyengar, C. V. K., 4047  
 J., J., 3017  
 J., R. M., 2832k  
 Jacks, H., 2575, 3217  
 Jackson, R. K., 2207  
 Jackson, R. L. O., 2125  
 Jackson, T. H., 2374  
 Jacob, H. E., 2418g  
 Jacob, W. C., 1590, 1750, 3552, 3557, 3690  
 Jacoboni, N., 1369, 3289  
 Jacobs, H., 3831i  
 Jacobs, K., 2163  
 Jacobs, S. E., 2620  
 Jacobs, W. P., 2235  
 Jacobsen, H., 4094  
 Jacobson, L., 3210  
 Jacobson, M., 28321  
 Jacques-Félix, H., 4011  
 Jacynina, K. N., 3664  
 Jagendorf, A. T., 2244, 3743  
 Jain, N. L., 4076  
 Javenois, A., 2535  
 Jakovleva, N. N., 3709, 3710  
 Jakuškina, N. I., 669  
 Jamaica Department of Agriculture, 2164  
 James, D. T., 1328  
 James, E., 510h  
 James, M. O., 2882  
 James, W. O., 3868  
 Jameson, H. R., 2741  
 Jamieson-Craig, T., 1149  
 Jamison, F. S., 3654  
 Janaki Ammal, E. K., 3182, 39161  
 Jancke, O., 4311, 3440, 3470, 3472  
 Janes, B. E., 542, 543  
 Jannone, G., 1484  
 Janson, B. F., 2807

# INDEX OF NAMES

- Jany, E., 2627  
 Jaramillo J., G., 1164  
 Jardine, F. A. L., 283  
 Jarrett, R. M., 3288  
 Jaščuk, A. P., 744  
 Javier, S. V., Jr., 2570e  
 Jeater, J. G., 3972  
 Jeffers, W. F., 3636  
 Jeffree, J. H., 322  
 Jehle, R. A., 28871  
 Jelitto, C. R., 1195  
 Jelitto, L., 1207  
 Jenkins, A. E., 28871, 2980  
 Jenkins, W. A., 792  
 Jensen, D. D., 927o, 3879  
 Jeppson, L. R., 1990  
 Jesser, M. J., 1990  
 Jex, W. F. C., 2086  
 Jiménez J., J., 1054  
 Jiménez, O., 997  
 Johansson, E., 111, 158, 3242, 3320  
 John Innes Horticultural Institution, 3115  
 Johns, R., 1030  
 Johnsen, E. M., 146  
 Johnson, A. T., 2887m, 3901  
 Johnson, B. L., 878  
 Johnson, C. G., 1655  
 Johnson, C. M., 22831  
 Johnson, E. W., 2875, 2876  
 Johnson, F., 351, 3872  
 Johnson, H. B., 948  
 Johnson, J., 2708h, 2708i, 2792c  
 Johnson, M., 1343  
 Johnson, M. A., 2883  
 Johnson, M. M., 2927, 3963f  
 Johnson, W. A., 522, 639  
 Johnson, W. H., 420  
 Johnston, A. E., 114  
 Johnston, B. R., 20  
 Johnston, J. M., 1244i  
 Johnston, R. E., 115  
 Johnston, S., 3357c, 3357d  
 Johnstone, D. B., 2515  
 Johnstone, F. E., 3631  
 Joley, L. E., 2329  
 Jolly, A. L., 2019  
 (Jones, A. H.), 2158  
 Jones, D. R., 1787, 2732  
 Jones, E. W., 1611, 2716, 3652, 3689  
 Jones, H. A., 1521  
 Jones, I. D., 3579  
 Jones, L. S., 431t  
 Jones, M. A., 3804  
 Jones, M. W., 2217  
 Jones, R. J., 1246  
 Jones, W. W., 954, 959, 1965, 3926  
 de Jong, J. R., 15401  
 de Jong, P., 1179  
 Jordan, J. V., 525  
 Jordan, R., 3273  
 Jörgensen, H., 688r, 2018  
 Joslyn, M. A., 687t  
 Joubert, F. J., 2958  
 Joubert, T. G. la G., 2631  
 Jourdain, E., 2968g  
 Joyner, J. F., 3022  
 Juantorena, J., 3073  
 Judkins, W. P., 253, 3323  
 Juganova, O. N., 1476, 2517  
 Julia, H., 3028  
 June, R. I., 901, 1396, 1474  
 Jungermann, K., 524  
 Junkins, S. C., 716  
 Junta Nacional das Frutas, Lisbon, 3349  
 K., G., 3215  
 Kacneljson, S. M., 2690, 3650  
 Kageyama, M., 628  
 Kaindl, K., 1286  
 Kakukawa, T., 835, 13311  
 Kalbfleisch, W., 3228s  
 Kalin, E. W., 881  
 Kalinkevič, A. F., 3825  
 Kalinkevič, M. I., 802  
 Kaljužnyi, A. F., 277  
 Kalshoven, L. G. E., 1199  
 Kamemoto, H., 853, 855, 856  
 Kammermann, N., 1734  
 Kamp, J. R., 3843  
 Kandler, O., 1331m, 3213  
 Kanehira, R., 832  
 Kansas Agricultural Experiment Station, 3116, 3117  
 Kapica, L., 1760  
 Kara-Murza, L. H., 26  
 Karasawa, K., 1898, 1899, 1950j  
 Karnatz, H., 160, 3252, 3268, 3269  
 Karpov, G. K., 2360  
 Káš, V., 279  
 Kasahara, Y., 510i, 510j, 1603n, 1603o  
 Kaserer, H., 1609  
 Kasjjanenko, A. L., 1361  
 Kasparova, S. A., 696  
 Kassanis, B., 1762, 1801, 1802  
 Kastendieck, M., 316  
 Kasting, R., 3484  
 Kato, T., 591  
 Katznelson, H., 399, 3393  
 Kaushal, R., 836a  
 Kawahara, U., 1692  
 Kawarada, M., 646  
 Kawamura, E., 1711  
 Kazjmin, G. T., 139  
 Kearns, H. G. H., 2524, 3421, 3489, 3491  
 Kebby, R. G., 2902  
 Kedrin, S. P., 131  
 Keen, B. A., 3967  
 Kehl, F. H., 3074  
 Kehren, L., 1080  
 Keiser, I., 535  
 Keitt, G. W., 2454, 2536m  
 Kelarev, M. P., 1419  
 Keleny, G. P., 1808  
 Kellenbarger, S., 3818  
 Keller, J. R., 861  
 Keller, K. R., 1848, 3782  
 Kelley, A. P., 2126  
 Kelley, J. L., 1401  
 Kelley, R. A., 745  
 Kelley, V. W., 2536r  
 Kelly, S., 2249  
 Kelly, W. C., 2222  
 Kelsey, R. H., 3088o  
 Kelsheimer, E. G., 687x  
 Kelsick, R. E., 1120, 1187n  
 Kemmer, E., 1332, 3274  
 Kendall, L., 3306  
 Kendrick, J. B., Jr., 1613, 2708m, 2708n  
 KenKnight, G., 2536n  
 Kennard, W. C., 247, 3317  
 Kennedy, J. S., 2586, 27081  
 Kent, G. C., 1768  
 Kent, M., 2234  
 Kentucky Agricultural Experiment Station, 1228  
 Kentville, N.S. Fruit and Vegetable Products Laboratory, 2158  
 Kentville, N.S., Storage Investigations, 2158  
 Kenworthy, A. L., 146, 192  
 Kenya Department of Agriculture, 1229  
 Kenya High Level Sisal Research Station, Thika, 4126  
 Kenya, Molo Horticultural Station, 3118  
 Kenya, Senior Agricultural Officer, 4125  
 Kepner, R. A., 2891  
 Kerharo, J., 3764  
 van der Kerk, G. J. M., 3457  
 Kerling, L. C. P., 3916m  
 Kerr, T. W., Jr., 3912  
 Kertesz, Z. I., 1708  
 Kessler, H., 1397, 3310, 3486  
 Kester, E. B., 2824  
 Kesterson, J. W., 996  
 Kevorkian, A. G., 3670, 3983  
 Keyworth, W. G., 1716, 3786  
 Khan, M.-u.-D., 963  
 Khan, M. H., 421  
 Khanna, K. L., 1138, 1139, 1142, 1143, 1165, 1166, 1170, 1187o  
 Kibe, M. M., 1316  
 Kidd, F., 229, 3303  
 Kidner, A. W., 2595  
 Kido, G. S., 1513  
 Kidson, E. B., 1705

# INDEX OF NAMES

- Kiely, T. B., 3933  
 Kieser, M. E., 2340, 3305, 3316  
 Kiesselbach, T. A., 638  
 Kietreiber, M., 635  
 Kihara, H., 2080  
 Kimball, M. H., 2414  
 Kimura, K., 604, 608, 1660  
 Kimura, M., 1001  
 Kincaid, R. R., 1809  
 King, F. C., 4095  
 King, H., 1870f  
 King, L. J., 1551, 2539, 3511, 3549  
 King, N. J., 1108, 2084, 2111j, 3056, 4040  
 Kirby, A. H. M., 1524, 2499, 2505, 2521, 2525, 2526  
 Kirby, R. H., 806  
 Kirby, R. S., 19501  
 Kirjalov, N. P., 836i, 836j  
 Kirkpatrick, H., Jr., 16031, 3294, 3551  
 Kirkpatrick, H. C., 1449  
 Kirkpatrick, T. W., 1031  
 Kirpal Singh, K., 991  
 Kirsanova, V. A., 2874  
 Kiryu, T., 1157  
 Kisakürek, H., 3325  
 Kitagawa, M., 1712  
 Kivel, B., 2217  
 Kizjurin, A. D., 1443  
 Kjennerud, J., 2855  
 Klang, C. A., 3232  
 Klapwijk, J. G., 2651  
 Klečkovskii, V. M., 3196, 3197  
 Klein, R. M., 3190  
 Klein-Krauthelm, F., 1778  
 Klešnin, A. F., 1272, 3173  
 Klevstrand, R., 22  
 Klimentko, V. G., 588  
 Klingbeil, G. C., 3480  
 Klingman, G. C., 1603m  
 Klinkenberg, C. H., 2429, 2536o  
 Klinker, J. E., 664  
 Klinkowski, M., 1686, 3702  
 Ključareva, M. V., 1709  
 Klöpping, H. L., 3457  
 Klostermeyer, E. C., 1689, 3674t  
 Klosterneuburg Horticultural College and Research Station, Austria, 4127, 4152  
 Klotz, L. J., 978, 1981, 2003a  
 van der Knaap, W. P., 4080k  
 Knappstein, R. O., 3357e  
 Knjazev, A. A., 2853  
 Knoppin, P., 2485, 2530  
 Knott, J. E., 632, 921  
 Knowles, G., 1562, 1570  
 Knowles, W. H. C., 1144, 1155  
 Knust, H. G., 449, 1147, 1150  
 Kobernuss, E.-C., 2423  
 Kobjakova, A. M., 768q  
 Koblitsky, L., 2532  
 Kočerzenko, I. E., 965  
 Koch, E. J., 1250  
 Koch, L. W., 1800, 1904, 3755  
 de Kock, P. C., 75  
 Koek, P. C., 2773  
 Koelle, G., 1777  
 Koellreuter, J., 2463  
 Koenig, P., 1777  
 Kofranek, A. M., 1901  
 Köhler, E., 725, 1758, 1803, 3751  
 Koizumi, T., 835  
 Kojima, H., 68, 1262  
 Kolesnik, L. V., 1417  
 Koliščuk, L. K., 1634  
 Kolobkova, E. V., 30  
 Konczewski, C., 1384  
 Kondo, I. N., 1423  
 Kondo, M., 510i, 510j, 1603n, 1603o  
 Konecky, M. S., 3852  
 Koninklijke Vereeniging Indisch Instituut, Amsterdam, 2141  
 Konoplev, N. A., 950  
 Kontoret for Landbruksforskning, 1243  
 Koolhaas, D. R., 3831i  
 van Koot, Y., 2418h, 2571  
 Kopac, M. J., 3225  
 Kopetz, L. M., 3683  
 Korčagin, A. A., 3900  
 Kordon, R. Ja., 130, 1366  
 Koriba, K., 109i  
 Korneicuk, V. D., 2399  
 Korven, H. C., 1607  
 Koski, V. M., 1270  
 Koswig, W., 3581  
 Kostjuk, A. N., 3342  
 Kotelnikov, A. V., 3693  
 Kotte, W., 3384, 3492o  
 Kovache, A., 3466  
 Kozlov, V. E., 660  
 Kozlowski, T. T., 3180  
 Kraevoi, I. M., 1327  
 Kramer, A., 3589  
 Kramer, J. A., Jr., 3511  
 Kramer, M., 3559m  
 Kramer, P. J., 60  
 Krantz, F. A., 768k  
 Krapovickas, A., 1936  
 Krasnošček, I. F., 174  
 Kraus, G., 3341  
 (Kraus, J., Editor), 4152  
 Kraus, J. E., 620  
 Kremer, J. C., 170  
 Kress-Richter, I., 109n  
 Kretovic, V. L., 3910  
 Kreutz, W., 12, 760  
 Krimbas, B. D., 2387  
 Cricki, M., 512, 517  
 Krishan, R., 1110  
 Krishna, P. G., 1131  
 Krishna Menon, K., 810  
 Krishnamurthy, R. S., 1863  
 Krishna Murti, C. R., 2063  
 Krishna Rao, G. S., 1870h  
 Krister, C. J., 3477  
 Kritskaja, L. M., 3293  
 Kromdijk, G., 3855  
 Kromphardt, H., 1680  
 Krone, P. R., 2563, 3559d  
 Krotkov, G., 2303  
 Krug, C. A., 1048, 1061, 2039, 2040  
 Krüssmann, G., 1195, 3238, 4083  
 Kružilin, A. S., 540, 1699, 3647  
 Kudrjašova, N. A., 31  
 Kühne, H., 555  
 Kulakovskaja, T. H., 3824  
 Kulash, W. M., 1690  
 Kuliev, A. M., 3228t  
 Kumar, L. S. S., 471  
 Kumar, V., 4019  
 Kundert, J., 1527, 2516  
 Kundu, B. C., 1870i  
 Kungl. Lantbruksakademien, Sweden, 2193d, 3143  
 Kunkel, L. O., 2649  
 Kunkel, R., 1745, 3686  
 Kuroi, I., 191  
 Kursanov, A. L., 2111k, 4067  
 Kushnir, T., 1909  
 Kutaleva, T. S., 270  
 Kuwabara, T., 590  
 Kuzjmin, A. Ja., 3336  
 Kuznecova, G. A., 836o  
 Kvasnikov, B. V., 579  
 L., F. W., 2271  
 L., G. K., 3262  
 van der Laan, E., 2197  
 van der Laan, P. A., 2785  
 Labbe, A., 458  
 Labeyrie, V., 2639, 2640  
 Laboratorio Sperimentale di Patologia Vegetale, Bologna, 4107  
 Lachman, W. H., 1593, 3554, 3559n  
 Lackey, C. F., 3663  
 Ladarija, Z. N., 1973  
 Ladeburg, R. C., 723, 2724  
 (La Face, D.), 801  
 LaFollette, J. R., 2968h  
 Lafond, J. A., 2756  
 Lagasse, F. S., 1002, 2964  
 Lagaude, V., 3260  
 Lagutinskaja, N. S., 293  
 Lai, T. M., 1187u, 4051  
 Laibach, F., 1200  
 Lakshmikanta, S. R., 685  
 Lal, G., 2003d  
 Lal, K. N., 4055  
 Lall, B. S., 748  
 Lamb, J., 2102, 2106, 21111



# INDEX OF NAMES

- Lamb, J. G. D., 214  
 Lamb, R. C., 234s  
 Lambers, D. H. R., 364  
 Lambert, E. B., 3608  
 Lambour, M. R., 3922  
 Lambrech, J. A., 2539  
 Lamm, R., 514  
 Lamprecht, H., 622  
 Lana, E. P., 485  
 (Landbouwworganisatie T.N.O. Groningen), 4118  
 Landis, B. J., 751  
 The Land Settlement Association Ltd., 4153i  
 Lane, C. R., 998  
 Lange, W. H., Jr., 552, 3596  
 Langenau, E. E., 2832f  
 Langenbuch, R., 1781, 3714  
 Langford, G. S., 3427  
 Laning, E. R., Jr., 3559o  
 Lanjouw, J., 1  
 Lansade, M., 2729, 2733  
 Lapin, V. K., 945  
 Larionova, A. A., 3923  
 Larochoas, L., 40801  
 Larsen, P., 2283m, 3186  
 Larson, A. H., 1559  
 Larson, C., 3687  
 Larson, R. E., 665, 2870, 3856  
 Larson, R. H., 547, 697, 723, 724, 2708y, 2724, 2747c  
 Lashbrook, R. V., 1804  
 Lašuk, G. I., 779, 780  
 Lathrop, F. H., 2536k  
 Latimer, R. D., 474  
 Latus, M., 3194  
 Laumont, P., 2756  
 Laurie, A., 900, 2127  
 Lauritzen, J. I., 1109  
 Lausanne Horticultural Research Station, 2166  
 Lawalrée, A., 2128  
 Lawes Agricultural Trust, Rothamsted, 1237, 1238, 4139, 4140  
 Lawrence, W. J. C., 2129  
 Laycock, D. H., 2096, 4071, 4073  
 Lazurjevskii, G. V., 77  
 Lea, A. O., 687u  
 Leach, L. D., 682  
 Leaper, J. M. F., 2243  
 Leatherdale, D., 1499  
 Lebedeva, N. A., 703  
 LeCompte, S. B., Jr., 1585  
 Lecrenier, A., 287  
 Ledesma, N. R., 3372, 3373  
 Lee, A. E., 36, 2266  
 Lee, F. A., 1407  
 Lee, L. S., 4048, 4050  
 Leefe, J. S., 3559p  
 Leefmans, S., 2487  
 Leeper, H. M., 2111q  
 Lees, A. D., 1540m  
 van Leeuwen, E. R., 1486  
 Leeward Islands, Director of Agriculture, 3120  
 Lefèvre, P. C., 597  
 Lefortain, M., 3769  
 Leggett, H. W., 510k  
 Leib, E., 3716  
 Leighty, W. R., 3741  
 Lemmon, P. E., 3345  
 Leon, J., 2984  
 Leonard, C. D., 1303, 2581  
 Leonard, O. A., 445, 469  
 Leone, I. A., 1706  
 Leontjeva, Ju. A., 3406  
 Lepage, H. S., 1065  
 Le Riche, F. J. H., 623  
 Leroy, A., 895  
 Leroy, J. F., 3088g  
 Lesjuk, E. A., 129  
 Leupen, F. F., 4000  
 Leuty, J. D., 1963  
 Levac, C., 804  
 Levin, J. H., 2276, 3299  
 Levine, M., 1263, 2262, 2263, 2265, 2283n  
 Levitt, E. C., 986  
 Levitt, J., 2717, 3228u, 3365  
 Lewis, C. A., 3869  
 Lewis, C. E., 3916g  
 Lewis, D., 3181  
 Lewis, F. H., 2441, 2529  
 Lewis, F. J., 57  
 Lewis, N. G., 5101  
 Leyendecker, P. J., Jr., 687v  
 Leyvraz, H., 284  
 Lhomme, E., 3088h  
 Lhoste, J., 415, 3609  
 Li, J. C. R., 3782  
 Li, K. Y., 1124  
 Lidov, R. E., 1540d, 1540n  
 Liebel, L. N., 805  
 Lienk, S. E., 379  
 Lieu, K. O. V., 983  
 Lihnell, D., 3367, 3854  
 Lilleland, O., 2207  
 Lilly, C. H., 2275  
 Limasset, P., 2747d, 3492p, 3750  
 Lin, K. S., 4048  
 Lin, L. C., 849  
 Linde, P. E., 291  
 Lindeberg, G., 687w  
 Linder, P. J., 82, 1299, 1300, 3504  
 Lindgren, D. L., 2000  
 Lindhardt, K., 2474, 3838  
 Lindner, R. C., 1449  
 Lineberry, R. A., 3322  
 Ling, L., 3501  
 Link, C. B., 3904  
 Link, G. K. K., 3190  
 Linser, H., 1285  
 Linskens, H. F., 3228v  
 Linton, R. D., 1029  
 Lips, H. J., 836e  
 Liso, A., 197  
 Little, J. E., 2515  
 Little, V. A., 362  
 Livingston, G. A., 1971  
 Liyanage, D. V., 1036, 1041, 2034, 3991  
 Lizano, F., 1060  
 Ljones, B., 3321, 3364, 3375  
 Lladdis, C., 4080m  
 Lloyd, N. C., 750  
 Lobanov, G. A., 1374  
 Lobstein, J., 2939  
 (Lock, G. W.), 1240  
 Locsin, C. L., 4038  
 Loest, F. C., 1978  
 Loeven, W. A., 2635  
 Loewel, E. L., 234f, 347, 389, 1382, 1393, 1395, 3398  
 Loginyčeva, A. G., 244  
 Loh, C. S., 4046  
 Lohman, M. L., 1919  
 (Lohmeyer, V. K.), 3899  
 Löhms, M. P., 3207  
 Loidina, G. I., 1806  
 Lombard, P. M., 1764  
 Lona, F., 1276  
 London, D.S.I.R., 234d  
 Long, J. K., 2951  
 Long Ashton Agricultural and Horticultural Research Station, 4128  
 Loomis, N. H., 2418i  
 Loomis, W. E., 95, 1547, 1548  
 Loos, C. A., 1178, 2098, 2104, 3078  
 Loosjes, F. E., 2861  
 Lord, K. A., 1518  
 Lorenz, O. A., 1740  
 Lorenzini, C., 3724a  
 Loring, H. S., 1804  
 Lott, T. B., 332  
 Lott, W. L., 281  
 Lou, T. C., 3798  
 Loucks, K. W., 993, 1997  
 Louisiana State University, 532  
 Loupo, M. W., 109j  
 Loustalot, A. J., 510m, 2088, 2537, 3516, 3523  
 Louw, A. J., 1463  
 Löw, I., 1187p  
 Low Temperature Investigations, Storage Laboratory, Division of Horticulture, Central Experimental Farm, Ottawa, 2158  
 (Lowe, V. J.), 2157  
 Lownsbury, B. F., 2736  
 Lownsbury, J. W., 2736  
 Lowry, S. J., 180  
 Lubatti, O. F., 758  
 Lucas, E. H., 1288  
 Luchetti, G., 3282, 3400

# INDEX OF NAMES

- Luchini, R., 1333  
 Lüchow, G., 3986  
 Lucie-Smith, M. N., 1952, 1956  
 Luckwill, L. C., 329, 3278  
 Ludbrook, W. V., 429  
 Ludlow, F., 3860  
 Lugeon, A., 1429  
 Luginbill, P., 534  
 Lukin, N., 836k  
 Lundegårdh, H., 54, 4096  
 Lutohin, S. N., 2578  
 Lutz, J. M., 768n  
 Luyten, I., 3876  
 Lykin, L. A., 3335  
 Lynch, L. J., 3586  
 Lynd, J. Q., 1305  
 Lyon, A. G., 3630  
 Lyons, J. E., 3453  
 Lyons, T., 1718  
  
 McAlpin, D. M., 1586, 3411  
 MacArthur, M., 309  
 Macaulay Institute for Soil Research, Aberdeen, 2167  
 McCabe, E. T., 1799, 3730, 3762d  
 Maccanti, M., 3400  
 McCartney, J. S., 320  
 McClean, A. P. D., 972, 973, 3661  
 McClellan, W. D., 873, 887, 1902, 3893  
 McClure, T. T., 644, 2676  
 McColloch, R. J., 1708  
 McColm, E. M., 4024  
 McComb, E. A., 23, 3634  
 McCombs, L., 1603a  
 McCready, R. M., 587, 3949  
 McCubbin, E. N., 687x  
 MacDaniels, L. H., 1444, 2868  
 McDermott, L. A., 1725n  
 McDermott, N., 689  
 McDonald, B. K., 510n  
 MacDonald, R. E., 3454  
 MacDonald, W. P., 1556  
 Macdonald-Smith, S., 1029  
 MacDonnell, L. R., 1011b  
 McDonough, E. S., 1512, 2872  
 McDuff, O. R., 996  
 MacEwan, A. M., 2256  
 McEvoy, E. T., 1797, 2752  
 MacFarlane, E. W. E., 3228w  
 McGeorge, W. T., 3201  
 MacGillivray, J. H., 656, 714  
 McGillivray, K. D., 2903  
 McGrath, J. V., 116  
 McGregor, W. G., 571  
 Machacek, J. E., 1330  
 Machado, F. A., 431q  
 Machado S., A., 2831, 2998, 3009, 3032  
 Macherauch, O., 3267  
  
 McIlrath, W. J., 1704  
 McLroy, R. J., 3831j  
 McLivaine, T. C., 3736  
 McIlwaine, A., 2979  
 Mackay, J. W., 3088i  
 McKeen, C. D., 653, 2708o  
 Mackie, R. W., 1302  
 McKinlay, K. S., 1524, 2521, 2525  
 McKinney, H. H., 3748  
 MacLagan, D. S., 2708p  
 McLarty, H. R., 312  
 McLaughlin, J. H., 2016  
 MacLay, W. D., 3949  
 MacLean, A. J., 571  
 MacLean, D. B., 8361  
 MacLean, J. A. R., 2023  
 MacLean, N. A., 927a  
 McLeod, W. S., 3492q  
 MacLinn, W. A., 756  
 McMMartin, A., 1600  
 Macmillan, W. G., 3087  
 McMurtrey, J. E., Jr., 2767  
 MacNear, B. T., 3770  
 MacNeill, B. H., 1715  
 McNew, G. L., 405, 406, 1465  
 Macself, A. J., 4099  
 McWhorter, F. P., 2866  
 Madras Department of Agriculture, 3121  
 Madson, B. A., 3345  
 Maekawa, T., 556  
 Magee, R. A., 1848  
 Magelli, E., 2682  
 Magruder, R., 620  
 Maheshwari, P., 927p  
 Mahfudi, M., 2888  
 Mahmud, K. A., 1842  
 Mai, W. F., 2736, 2747e  
 Maier, E. A., 4056  
 Maillet, A., 1322  
 Maine Agricultural Experiment Station, 2168  
 Mainland, G. B., 1919  
 Majewski, K., 3780  
 Makarevskaja, E. A., 269  
 Makarov, S. N., 276  
 Makhdum, N. A., 234g, 687y  
 Makoveckii, N. I., 265  
 Maksimova, M. P., 1342  
 Malaguti, G., 836m, 1859  
 Malan, E. F., 940  
 Malaya Department of Agriculture, 4129  
 Malaya Rubber Research Institute, 2169, 4033, 4130  
 Malberty García, F., 1146  
 Malençon, G., 2954  
 Mallamaire, A., 2974  
 Mallik, P. C., 4013  
 Mallinjoud, H., 3492r, 3492s  
 Mallo, R. G., 419  
 Malyšev, A. A., 28  
 Mamontova, A. N., 1755  
  
 Manaresi, A., 157, 286, 2325  
 Mancini, F., 195  
 Mandel, K., 3927  
 Mangan, J. L., 1258  
 Manig, M., 109k  
 Manitoba Department of Agriculture, 4153j  
 Mann, C. E. T., 1084  
 Mann, L. K., 2604  
 Manning, H. E., 41  
 Manohin, P. A., 1415  
 Mansfeld, K., 396  
 Manske, R. H. F., 8361, 1870j  
 Mantell, C. L., 808  
 Manuel, H. L., 272  
 Mapson, L. W., 3721  
 Marais, J. S., 2170  
 Marais, S. J. S., 1569  
 Maramorosch, K., 2841, 3223  
 Marcelli, E., 2778, 3524  
 Marchionatto, J. B., 975, 1450  
 Marcus, C. P., 2448  
 Marggraf, M., 1201  
 Margolin, A. F., 1364  
 Mariman, G., 3331  
 Mariño Moreno, E., 934  
 Marimpietri, L., 1388  
 Marinari, A., 2880  
 Marinucci, M., 119, 149, 234h, 234i, 33121  
 Marion, L., 798, 8361  
 Marke, D. J. B., 2275  
 Markham, E., 3097  
 Marković, A. A., 2873  
 Marlé, G., 2479  
 van Marle, G. S., 3837  
 Marloth, R. H., 928  
 Maroc, Residence Générale de la République Française au, 2955  
 Marques Mesa, A., 401  
 Marriott, P. F., 167, 267  
 Marsh, G. L., 942  
 Marsh, M. M., 2832i  
 Marsh, R. W., 404, 1230, 3395, 3464  
 Marshall, A., 3674i  
 Marshall, B. H., Jr., 873  
 Marshall, E. R., 766, 1589, 1591, 2746  
 Martelli, G. M., 2496  
 Marth, P. C., 202, 208, 589, 767  
 Martin, E. R. H., 1117, 1187q  
 Martin, H., 431m  
 Martin, J. P., 976, 977  
 Martin, R. P., 1296, 1297  
 Martin, W. J., 643, 1714, 2677  
 Martínez Crovetto, R., 1871, 1893, 3546  
 Martínez Zaporta, M., 2402  
 Martyn, E. B., 2979  
 Marucci, P. E., 2438  
 Marutjan, S. A., 292

# INDEX OF NAMES

- Marx, T., 2693  
Marzocca, A., 3918  
Maslennikova, V. A., 77  
Mason, A. C., 2208, 2211  
Mason, C. L., 2450  
Mason, C. T., Jr., 2887n  
Massachusetts Agricultural  
Experiment Station, 4131  
Massee, A. M., 392, 431n, 3093  
Maštakov, S. M., 3824, 3826  
Masters, L. C., 2899  
Mathon, C. C., 1829  
Mathot, H. J., 1723  
Matsubara, S., 646  
Matsumoto, T., 1815b, 1822  
Matthews, E. M., 3760  
Matthews, L. J., 3530  
Matthews, R. E. F., 547, 3747  
Matthews, W. S. A., 1840, 2805  
Mattson, S., 2617  
Mattus, G. E., 233  
Matveev, M. I., 2359  
Maurer, K. J., 212, 298, 3257  
Maurié, A., 196  
Mauritius Sugarcane Research  
Station, 3122  
Maurizio, A., 90  
Maxwell, N., 29681  
May, A. W. S., 1503  
Mayer, A., 3476  
Mayer, E. L., 1525  
Mayer, K., 610, 1379  
Mayéras, R., 1344  
Mayeux, H. S., 2681, 3615  
Maymone, B., 2982  
Mazaeva, M. M., 3206  
Mazzarella, P., 3221  
Mazzei Patrone, I., 3405  
Meadows, M. W., 1589, 1591  
Meara, M. L., 2832h  
de Medina, A. R., 1067  
Medina, D. M., 1046  
Medina, J. C., 1068  
Medvedev, P. F., 3827  
Meek, W. E., 1603p  
Meffert, M.-E., 1821  
Mehren, G. L., 258  
Meith, H. C., 1961  
Melandar, L. W., 1602  
Mellier, M.-T., 3031  
Mellor, F. C., 3387  
Meltzer, J., 2485  
Mendes, A. J. T., 1045  
Mendes, C. H. T., 1062  
Mendes, C. T., 2042, 4003,  
4007  
Mendes, H. C., 2050  
Mendes, J. E. T., 1049, 2039,  
2043, 2048  
Mendes, L. O. T., 2052  
Mendes da Ponte, A., 510o  
Mendiola, N. B., 3088j  
Meneghini, M., 2768  
Menon, H. B., 2055  
Mentz, N. J., 2570a  
Menzies, J. D., 736, 7681,  
768m  
Merchant, C. H., 1786  
Meredith, D., 1942, 1948  
Mericle, L. W., 2254  
Merriam, D., 2723  
Merrill, L. G., Jr., 2610  
Merrill, S., 2961  
Morrow, S. B., 516  
van der Merwe, G., 1815c  
Meržanian, A. S., 300h  
Messenger, P. S., 1532  
Messing, A. M., 3228w  
Metcalfe, C. R., 1202  
Metcalf, R. L., 980  
Meteorological Office, Air  
Ministry, London, 4132  
van der Meulen, J. G. J., 1597  
Meurman, O., 3517  
Meyer, W. H., 3040  
Mezzetti, A., 2696, 2859  
Michalek, G. A., 418  
Michaux, P., 3027  
Michel, B. E., 3191  
Michel, H., 903  
Michelbacher, A. E., 385, 656,  
687z, 1483, 1638, 2705,  
3462  
Michigan Agricultural Experi-  
ment Station, 4153k  
Middlebrook, S., 1662  
Middelburg, H. A., 2784, 3737  
Middlekauff, W. W., 385,  
1483, 1638, 3462, 3600  
Middleton, J. T., 1613, 1885,  
3858  
Mieller, H., 2488  
Miescher, G., 402  
Mihaïlova, P. V., 1795, 2750,  
3729  
Mihaïlovskii, V. S., 1469  
Mihalev, A. Ja., 3647  
Mihasi, T., 605  
Mihlin, D. M., 1851  
Mikkelsen, D. S., 314  
Mikolaičuk, I. A., 1404  
Milano, V. A., 913  
Milbrath, J. A., 334, 2442  
Miles, H. W., 530  
Miles, M., 1627  
Miller, E. J., 3263  
Miller, E. V., 3035, 3950  
Miller, H. E., 1083  
Miller, J. C., 642  
Miller, L. P., 3771  
Miller, L. W., 1540o  
Miller, M. P., 2906  
Miller, P. R., 2583  
Miller, P. W., 2421  
Miller, R. C., 501  
Miller, R. E., 1522  
Miller, V. L., 3872  
Miller, W. W., 2966  
Millington, W. F., 917  
Mills, K. S., 3228x  
Milne-Redhead, E., 1331n  
Milthorpe, F. L., 1266  
Minarik, C. E., 2241, 3559q  
Minatta, M. J., 1989, 1991  
Minerbi, G., 3277  
Minister for Agriculture, Dub-  
lin, 3144a  
Ministry of Agriculture, Lon-  
don, 234j, 234k, 234l,  
510p, 654, 655, 888, 1249,  
1509, 1540p, 1540q, 1572,  
1725g, 1725h, 1789b, 2171,  
2375j, 2509, 2589, 2629,  
2646, 2708q, 3123, 3124,  
3228y, 3492t, 3583  
Ministry of Agriculture, Nor-  
thern Ireland, 3124  
Minshall, W. H., 2556  
Mirimanjan, V. A., 946, 1972  
Mirošničenko, K. G., 72  
Mirrado, J. H. M., 3993  
Mishanec, W., 836d  
Missouri Agricultural Experi-  
ment Station, 4133  
Mital, S. P., 1158  
Mitchell, A. E., 146, 3480  
Mitchell, C. E., 2602  
Mitchell, J. W., 82, 589, 1299,  
1300  
Mitchell, P., 2007  
(Mitchell, R. L.), 4096  
Mitchell, R. S., 3586  
Mitlin, N., 1850  
Mitrofanov, P. I., 1495  
Miyawaki, Y., 604, 606, 1660  
Mjazzdrikova, M. N., 626  
Mo, T. T., 2035  
Modlibowska, I., 1410, 2343  
Moericke, V., 1540r  
Moewus, F., 720  
Mohanty, U., 2620  
(Möhring, H. K.), 4116  
Mok, B. C., 4053  
Moldenke, H. N., 1938  
Molina B., L., 690  
Mollem, A., 3790  
Möller Nielsen, H., 3510  
Molo Horticultural Station,  
Kenya, 3118  
Molotovskii, G. H., 1697  
Monachino, J., 2797  
Monciero, —, 2953  
Monin, A., 1399g  
Monk, R. J., 3785  
Monsi, M., 1091  
Montaldo B., A., 3681  
Montanari, V., 112  
Montealegre, M. R., 1050  
Monteiro, R. F. R., 834  
Montelaro, J., 2708r  
Montenegro, H. W. S., 2316,  
2745



# INDEX OF NAMES

- Montfort, C., 109m, 109n  
 Montgomery, H. B. S., 345  
 de Montgremier, H. A., 3492p,  
 3724c, 3750  
 Montserin, B. G., 1027  
 Moon, H. H., 202  
 Moore, C. A., 657, 2706  
 Moore, J. D., 2446, 2708x  
 Moore, J. E., 3636, 3638  
 Moore, J. F., 3655  
 Moore, M. H., 2324, 2456  
 Moore, R. C., 3541  
 Moore, R. H., 1290  
 Moore, W. D., 528  
 Moores, R. G., 3012  
 Morales, J. O., 3044  
 Morales M., E., 598  
 Morales, M. O., 3974  
 Mordkovič, M. S., 135  
 Morden, Fruit and Vegetable  
 Products Laboratory,  
 2158  
 Moreau, C., 3989  
 Moreau, M., 3989  
 Moreira, S., 969, 970, 971,  
 3932  
 Morel, G., 2260, 2261, 2264  
 Moretti, A., 1351, 1424, 2313,  
 2337  
 Morettini, A., 1399h, 2288  
 Morgan, C., 786  
 Morgan, C. N., 545, 929  
 Morgan, D. T., Jr., 3916n  
 Morgan, N. G., 3421, 3489,  
 3491  
 Morgan, O. D., 3748  
 Morgan, S. R., 1718  
 Morgan, W. L., 2585  
 Mori, H., 2960  
 Morita, Y., 182  
 Moriya, A., 2078  
 Morris, H. J., 36741  
 Morrison, R. D., 1171  
 Morrison, W. W., 3324  
 Morrow, E. B., 1402  
 Moser, F., 1528  
 Moškov, B. S., 42, 1273, 1274  
 Mosse, B., 3259  
 Mossop, M. C., 2172  
 Mothes, K., 2759  
 Mottier, P., 668  
 Moubasher, R., 2283v  
 Moulton, F. S., 217  
 Moulton, J. E., 489, 1603c,  
 1603d, 2563, 2565, 3559d,  
 3559e  
 Mouton, J. A., 623  
 Mowry, J. B., 2536p  
 Moyano, A., 1508  
 (Moyls, A. W.), 2158  
 Mozawa, R., 2605  
 Muhina-Begačeva, V. A., 4068,  
 4069  
 Muhr, G. R., 3632  
 Muir, R. M., 3228z  
 Mukherjee, S. K., 3055  
 Mulder, D., 315  
 Muller, A. S., 1018  
 Muller, C. J., 1605  
 Müller, E., 3403  
 Müller, H., 864, 3258  
 Müller, H. W. K., 3414, 3577  
 Müller-Stoll, W. R., 288, 1478,  
 2472, 3333  
 Mullison, W. R., 3508  
 Muma, M. H., 1862  
 Muncie, J. H., 3706  
 Munding, F. G., 3425  
 Munger, F., 2947  
 Munger, H. M., 3674a  
 Mungomery, R. W., 1162,  
 2090, 4037, 4042  
 Muntañola, M., 1861  
 Murakishi, H., 3841, 3842  
 Muramasu, H., 148  
 Murneek, A. E., 200, 203, 662,  
 2350  
 Murphy, R. G., 3695  
 Murray, D. B., 2032  
 Murray, S. M., 1948  
 Mushroom Research Associa-  
 tion, Ltd., Yaxley, 3125  
 Musil, A. F., 2597  
 Muskett, A. E., 346  
 Muzik, T. J., 2088, 2537  
 Myburgh, A. C., 1491, 1494  
 Myers, H. E., 2708s  
 Myhre, A. S., 1362  
 Myodo, M., 556  
 Myslicka, Z., 2814  
 Naaldwijk Research Station  
 for Fruit and Vegetable  
 Culture under Glass, 4134  
 Naef-Roth, S., 354  
 Naezer, H. W., 3740  
 Naik, K. C., 944, 1070, 1072,  
 1203  
 Nakajima, Y., 883  
 Nakagawa, Y., 3674m, 3674n,  
 3674o  
 Nakamura, M., 1832, 2003b,  
 2968i  
 Nakata, K., 688a, 688b, 795d,  
 795e  
 Nakata, S., 2957  
 Nakayama, T., 605  
 N.A.K.B., Nederlandse Alge-  
 mene Keuringsdienst voor  
 Boomkwekerijgewassen,  
 236  
 Narayana, N., 1316  
 Narayanamurti, D., 2108  
 Narayanaswami, S., 894, 927p  
 Nash-Northam, J. R. H., 1719  
 Nathanael, W. R. N., 1041,  
 2993  
 Nation, H. A., 510q  
 National Research Council of  
 Canada, 1244f, 2193e,  
 41531, 4153m  
 National Shade Tree Confer-  
 ence, Syracuse, N.Y., 3126  
 Natividade, J. V., 2130, 3283,  
 3287  
 Natrass, R. M., 819, 3705  
 Naudé, C. J., 940  
 Naude, T. J., 2173  
 Naumenko, N. P., 270, 3342  
 Naundorf, G., 2020, 2021,  
 2022, 2065  
 Navarro, G., 691  
 Navarro B., E., 611  
 Navellier, E., 2278, 3034  
 Nayar, T. G., 4080n  
 Naylor, A. W., 73, 2283o,  
 2664  
 Neal, M. C., 3847  
 Nebraska Agricultural Experi-  
 ment Station, 3127  
 Nederlandse Algemene Keur-  
 ingsdienst voor Boomkwe-  
 kerijgewassen (N.A.K.B.),  
 236, 1399i  
 Needham, P. H., 1540e  
 Neergaard, P., 3465  
 Neff, M. S., 2962, 2963  
 Negrulj, A. M., 260  
 Neilson, C. L., 2739  
 Neiman, M. B., 3828  
 Neiswander, C. R., 2593, 3915  
 Neiswander, R. B., 2593  
 Nekrasova, T. V., 1955  
 Nel, R. I., 2174  
 Nelson, A., 4097  
 Nelson, C. D., 3831g  
 Nelson, G. H., 3229a  
 Nelson, K. E., 2471  
 Nelson, R., 2637, 2708t, 2800  
 Nemirovskaja, E. I., 293  
 Neporožnyi, G. D., 1350  
 Nesterenko, G. A., 2968j  
 Nesterenko, P. A., 879  
 Neto, P. C., 2047  
 Nettles, V. F., 671  
 Neubert, A. M., 1206  
 Neville, H. B., 1603q  
 New Delhi, Indian Agricul-  
 tural Research Institute,  
 3112  
 New Jersey Agricultural Ex-  
 periment Station, 1231,  
 4135  
 New York State Agricultural  
 Experiment Station, 1232,  
 1233, 4136  
 New Zealand Department of  
 Agriculture, Horticulture  
 Division, 304, 1234  
 New Zealand D.S.I.R., 1221  
 Newcomb, E. H., 109o

# INDEX OF NAMES

- Newcomer, E. J., 1540s, 2502, 2536g  
 Newhall, A. G., 594, 1325, 2638, 3614  
 Newhook, F. J., 2659, 2660  
 Newman, A. S., 510r, 1549  
 Newman, K. J., 17  
 Newton, G. G., 3451  
 Newton, G. K., 2111m  
 Newton, H. C. F., 431o  
 Newton, R. G., 3088k  
 Newton, W., 889  
 Newton, W. F., 3515  
 Nicholas, D. J. D., 1256, 1301, 2206, 2283p, 3157, 3651  
 (Nichols, A. F.), 4126  
 Nichols, L. P., 1434a  
 Nickell, L. G., 152, 1287  
 Nickels, C. B., 388, 1487  
 Nicolini, J. C., 344, 1455, 3391  
 Nielsen, L. W., 2675  
 Nigam, L. N., 1165  
 Nigeria Agricultural Department, 4137  
 Nikitin, B. M., 3824  
 Nikoljskaja, M. N., 2003c  
 Niles, J. J., 1623  
 Nilsson, A., 866  
 Nilsson, P. E., 2258  
 Nilsson, R., 1620  
 Nishi, S., 591  
 Nishida, T., 3669  
 Nishiyama, I., 1681, 2652  
 Nisikado, Y., 604, 605, 606, 608, 1660  
 Nissen, T. V., 2283q  
 Nisson, Ø., 3153  
 Niswander, R. E., 687u  
 Nixon, H. L., 3745  
 Nixon, R. W., 3955  
 Nizi, G., 377  
 Nobis, F., 4153n  
 Noggle, G. R., 2283r  
 Noguchi, Y., 2663  
 Noguti, Y., 1606, 1682, 1815d  
 Noll, C. J., 688d, 1580, 3558, 3562  
 Nolte, H.-W., 1686  
 Noonan, J. B., 2747f  
 Noordam, D., 2842, 2845, 2851  
 Norbury, C. P., 2375k  
 Nordal, A., 22  
 Nordiska Jordbruksforskarens Förening, 3143  
 Norman, A. G., 1544, 1549, 2191  
 Noro, K., 683  
 Norris, W. E., Jr., 3610  
 North, C., 1604  
 North-Coombes, G. A., 1069, 4098  
 Northcraft, R. D., 3212  
 North-East Weed Control Conference Co-ordinating Committee, 1542, 3496  
 North of Scotland College of Agriculture, 3148  
 Northen, H. T., 2253  
 Northern Ireland Agricultural Research Institute, Hillsborough, 1244a  
 Northern Nut Growers' Association Inc., 2175, 3128  
 Northern Rhodesia Department of Agriculture, 3144b  
 Nottage, I. L., 117, 3924  
 Nova Scotia Fruit Growers' Association, 1235, 3129  
 N.S.W. Department of Agriculture, Entomological Branch, 380, 533, 789, 982, 2584, 3944  
 N.S.W. Department of Agriculture, Entomological Branch, Division of Science Services, 4153g  
 Nugent, T. J., 688c  
 Nutman, F. J., 2030  
 Nutter, E. C., 1603r  
 Nutter, G. C., 3543, 3547  
 Nuttonson, M. Y., 2192  
 Nyasaland Protectorate Department of Agriculture, 2176, 3130  
 Nyhlén, Å., 250  
 Nylund, R. E., 490, 768n  
 Öblom, K., 1331o  
 O'Brien, M., 2583  
 Ocfemia, G. O., 2056, 2570e  
 Odland, M. L., 521, 553, 666, 688d, 1580, 1645, 3558, 3562, 3674p  
 O.E.E.C., 1244g  
 L'Office Belge du Commerce Extérieur, 3226  
 Office of Foreign Agricultural Relations, U.S. Department of Agriculture, 4144  
 Office International du Vin, Athens, 300i  
 Ogg, S., 1950k  
 Ogg, W. G., 1331p  
 Ogle, W. L., 1579  
 Ognev, I. M., 1633  
 Oguro, E., 538  
 Oka, H., 1815d  
 Okabe, Y., 62, 63  
 Okada, M., 857  
 Okamoto, H., 1725i  
 Okanenko, A. S., 65  
 Oknina, E. Z., 33, 34, 2873  
 Olafson, G., 3368  
 Oldén, E. J., 3149  
 Oldham, C. H., 1409  
 O'Leary, E. H., 118  
 de Oliveira e Castro, F. R., 941  
 Oliver, R. W., 1921, 2836, 2837  
 Olmo, H. P., 1399c  
 Olmsted, C. E., 3829  
 Olney, A. J., 180  
 Olney, V. W., 2504  
 Olsen, C., 1309  
 Olsen, R. W., 989  
 Olsen, S. R., 3688  
 Olson, E. O., 2933, 2935  
 Olson, J., 625  
 Olson, P. J., 510s  
 Olson, R. L., 36741  
 Olsson, A., 1644  
 Oltmann, W., 79  
 O'Neil, W. J., 2482  
 deOng, E. R., 1529  
 Ono, M., 148  
 Ono, T., 574, 575, 2815  
 van Onsem, J. G., 1872  
 van Onsem, R., 5  
 Oostenbrink, M., 2624  
 Oparin, A. I., 3083  
 Oppenheimer, C., 3642  
 Orchid Growers' Association, 3878  
 Orbea, J. R., 1852  
 Orchard, H. E., 466, 507, 3521, 3528  
 Ordin, L., 3160  
 Oregon Agricultural Experiment Station, 3131  
 Organization for European Economic Co-operation, 1244g  
 O'Rourke, E. N., Jr., 2962, 2963  
 Orsenigo, J. R., 1599  
 Orsenigo, M., 1477  
 Orchansky, G., 1245  
 Ortega Nieto, J. M., 3245  
 Orton, E. C., 3350  
 Osborn, E. M., 2514  
 Osborne, D. J., 1700  
 Osipov, I. G., 2968k  
 Oswald, J. W., 682, 1765, 2731  
 Otamendi, J. C., 361  
 Otey, G., 2592  
 Otoy, F. J., 1032  
 Ottawa Central Experimental Farm, Division of Field Husbandry, Soils and Agricultural Engineering, 1215  
 Ottawa Central Experimental Farm, Division of Horticulture, 1216  
 Ottawa Division of Horticulture, Central Experimental Farm, Low Temperature Investigations, Storage Laboratory, 2158  
 Ôtuka, T., 1815d

# INDEX OF NAMES

- Ovčarov, K. E., 3156  
Overley, F. L., 177  
Oversacq, J., 3801  
Overseas Food Corporation, 3132  
Owen, J. H., 2968c  
Owen, O., 688e, 3580  
Ozerov, G. V., 154, 822, 825, 1389, 2904, 3821, 3823  
Ozol, A. M., 297, 923, 3356  
  
van der Pauw, F., 1257  
Paden, W. R., 586  
Padfield, C. A. S., 1368, 3301  
Pagan, C., 1533, 1870d, 2820  
Page, N. R., 586  
Page, O. T., 2747a  
Påhlman, A., 3312m  
Paine, J., 2816  
Paine, L. A., 2555  
Paiva Castro, G., 836n  
Pal, B. P., 3677  
Palinsky, J., Sr., 904  
Palleroni, N. J., 3229b  
Palm, C. E., 1519  
(Palmer, R. C.), 3135  
Palmira, Facultad de Agronomía, 3142  
Palmiter, D. H., 408  
Pammer, F., 513, 3229c  
Pančenko, V. G., 81  
Pandalai, K. M., 2992  
Parella, A., 2758  
Pangga, G. A., 2978  
Pansier, E., 2495  
Pape, H., 870, 1907, 3905  
Papy, H. R., 2970  
Paques, M., 2273  
Paredes C., A., 1834  
Pareja, I. E., 3674q  
Parievskaya, A. P., 3660  
Parker, E. R., 954, 959, 1965, 2925, 3926, 3931  
Parker, H. L., 1616  
Parker, J. R., 2536v  
Parker, M. W., 919, 1915  
Parks, N. M., 768o  
Parliament, Great Britain, 836f  
Parmentier, G., 1684  
Parpia, H. A. B., 3353  
Parra, J., 3011  
(Parris, G. K.), 567  
Parris, G. K., 568  
Patel, C. B., 2832h  
Patel, G. A., 1641, 1691  
Pathak, G. N., 1725j  
Patron, A., 234m  
Patterson, H. D., 3154  
Patterson, H. L., 1728  
Patterson, M. E., 3653  
Patterson, R. E., 1251, 1603t  
Patzenhauer, A., 3820  
Pavari, A., 2465  
Pavgi, M. S., 1870k  
Pavlov, A. N., 3823  
Pavlychenko, T. K., 1567, 2570f  
Pawar, S. S., 557  
Pazzanese, F., 4009  
Pearce, S. C., 2199  
Pearson, C. E., 3229d  
Pearson, G. A., 2283 l  
Pease, R. W., 1458  
Pečenicina, A. M., 3612  
Peck, R. L., 3453  
(Pedersen, K.), 2151  
Pedersen, M. W., 1329  
Peech, M., 953  
Peens, J. F., 2790, 2791, 3726  
Peer, K. C., 1529  
Peeters, F., 1873  
ter Pelkwijk, A. J., 238, 2376  
Pence, R. J., 2892  
Pennisi, L., 1966  
Pennock, W., 3033  
Pennsylvania Agricultural Experiment Station, 2177  
Pentzer, W. T., 206  
Pepper, J. O., 1950 l  
Peppin, S. G., 768p  
Percival, E. G. V., 2832m, 3312f  
Pereau-Leroy, P., 2920  
Perez, R., 1626  
Perkins, G. G., 3075  
Perkins, J. F., 2111n  
Perret, J.-E., 875  
Perrier, D., 2490  
Perry, A. L., 1786, 3720  
Perry, F., 3098  
Perry, V. G., 3569  
Person, L. H., 2677  
Perucci, E., 794  
Perur, N. G., 2111o  
Pesante, A., 2430  
Pessanha, M. V. T., 3965  
Peters, B. G., 740  
Petersen, D. H., 2466  
Peterson, A., 2708w  
Peterson, A. G., 1775, 1782, 1783  
Peterson, C. E., 453, 615  
Peterson, J. B., 29  
Peträhilev, I. M., 2536q, 3275  
Petročenko, E. I., 718, 1789c, 3715, 3722  
Petrov, E. M., 234n  
Petrova, O. A., 827  
Petrucchi, V. E., 2306  
Pettey, F. W., 1568, 1569  
Pettinga, J. J., 2452  
Peuckii, F., 705  
Pew, W. D., 3653  
Peyer, E., 2398  
Peynaud, E., 196  
Pfältzer, A., 3047  
Pfitzer, P., 1207  
Philipp, F., 511  
Philippines Department of Agriculture, 4138  
Phillip, A. G., 1011c  
Phillips, G. A. R., 3099  
Phillips, R. P., 467  
Phillips, W. R., 1391, 1467  
(Phillips, W. R.), 2158  
Phillis, E., 2069, 2111p, 3048  
Picco, D., 3413  
Pichel, R. J., 3041  
Pickett, J. T., 1399j  
Pickett, W. F., 2323  
Pierce, W. C., 388  
Pigulevskii, G. V., 836o  
van der Pijl, L., 3916o  
Pilarz, J., 61  
Pilet, P.-E., 903  
Pimenides, A. C., 3347, 3348  
Pineda P., M. A., 1097  
Piñero, M., 1044  
Pinkney, C. C., 388  
Pinto F., R. J., 1133  
Piot, R., 3622  
Piper, A., 1619  
Piquemal, A., 2061  
Piquer, G., 2433  
Pirie, N. W., 2761, 2762  
Pirovano, A., 1413  
Pitcher, R. S., 2497  
Pittier, H., 2131  
Pizer, N. H., 1664  
Plack, R. L., 2615  
Plakida, E. K., 293  
Plakidas, A. G., 2881, 2882, 2887o  
(Planckh, E.), 4127  
Plank, H. K., 2819, 3774  
Plant, A., 100  
Plant, W., 2600, 3573  
Plantenziektenkundige Dienst, Wageningen, 305, 1612  
van de Plassche, A. W., 2283s, 3139  
van de Plasse, J. B., 2369  
Platone, E., 3984  
Platonova, E. M., 523  
Platonová, R., 279  
Playfair, L., 2568  
du Plessis, S. J., 1437  
Plinka, A. D., 612, 688f  
Ploper, J., 3724d  
Plummer, C. C., 2937, 3936  
Poapst, P. A., 1391, 1467  
(Poapst, P. A.), 2158  
Podjapolskaja, V. P., 3174, 3587  
Podoprigoda, G. A., 1011d  
Podražanskii, A. L., 3343, 3346  
de Poerck, R., 2969  
de Poerck, R. A., 1078, 2058  
Pogosjan, S. A., 1412  
Pohl, R., 2283t, 2887p  
Pohlman, G. G., 3736  
Poleščuk, P. M., 688g



# INDEX OF NAMES

- Poljakov, I. M., 1794, 2750, 3728  
 Poljakova, N. F., 1625  
 Pollack, B. L., 665  
 Pollard, A., 294, 2340, 3305, 3316  
 Pollard, A. G., 2209, 2212, 2536t  
 Polunin, Ja. Ja., 1643  
 Pomaranov, S. F., 1445  
 Pons, R., 2639, 2640  
 Pont, W., 1475  
 Pontis, R. E., 3015  
 Pontis V., R. E., 836m  
 Ponto, S. A. S., 2035  
 Poole, A. L., 3776  
 Popcov, A. V., 828  
 Popham, R. A., 1882  
 Popova, E. M., 546  
 Porritt, S. W., 307, 2371  
 Porte, W. S., 2708u  
 Porter, D. R., 684  
 Porter, R. H., 2577  
 Porter, W. K., Jr., 500  
 Portères, R., 1022  
 Porterfield, W. M., Jr., 2572  
 Portier, G., 1436  
 Portolano, N., 1010  
 Portsmouth, G. B., 2097, 2105, 3079  
 Poruckii, G. V., 704  
 Posnette, A. F., 2024, 2025, 2026, 2439  
 Post, K., 852, 853, 854, 855, 856, 899, 3857  
 Posthumus, O., 3916p  
 Potapenko, Ja. I., 259, 285, 1414, 3334  
 Potgieter, J. E., 2214  
 Potter, C., 1518, 1520, 1540e  
 Potter, E. F., 21, 23  
 Potter, J. M. S., 3240  
 Potter, N. A., 1398  
 Pound, C. E., 3532  
 Pound, G. S., 2653, 2697  
 Pourcharesses, P., 2392  
 Pouwer, A., 2425  
 Povolocko, P. A., 1399k  
 Powell, D., 2536r  
 Powell, S., 109a  
 Powers, E., 2300  
 Powers, L., 1695  
 Powers, W. L., 525  
 Powning, R. F., 417  
 Pradyumna Singh, M., 4079  
 Pratt, F. F., 1337  
 Pratt, H. K., 3952  
 Pratt, O. E., 1130  
 Pratt, R. M., 3479  
 Preece, I. A., 2178  
 Prentice, I. W., 1452  
 Prest, R. L., 1725k  
 Preston, A. P., 2283u, 2324, 2362  
 Preston, R. D., 52, 1867  
 (Pretoria Agricultural Research Institute), 2152  
 Prew, H. A., 3376  
 Price, M. D., 3449  
 Price, W. C., 2245  
 Pridham, A. M. S., 3531, 3898  
 Priimak, A. K., 186  
 Prillinger, F., 3341  
 Primost, E., 3149  
 Prince, V. E., 208  
 Principi, G., 2887q  
 Privalov, A. F., 617  
 Proebsting, E. L., 2422  
 "De Proeftuin" te Boskoop, 1236, 4108  
 Proeschel, A., 817  
 Prokofjev, A. A., 3828  
 Prokošev, S. M., 717, 718, 1789c, 2719, 3715  
 Proničeva, L. L., 3694  
 van Prooijen, A. M., 3805, 3831k  
 Pruthi, J. S., 2003d, 3963h  
 Pryor, D. K., 1603s  
 Pšenova, K. V., 1851  
 Pubols, B. H., 935  
 Puccini, G., 2884  
 Puffer, R. E., 3540  
 Puhtinskiĭ, Ju. E., 138  
 Pupillo, M., 2950  
 Puppo, A., 274  
 Purdue, C. E., 688h  
 Purves, C. M., 2006  
 Purvis, E. R., 2213  
 Pushkarnath, —, 3677  
 Puzzi, D., 4062  
 Py, C., 1014, 1082  
 Pynaert, L., 38311  
 Quanjer, H. M., 2459  
 Quantz, L., 1648, 3591, 3592  
 Quastel, J. H., 1546  
 Queensland Acclimatisation Society, 3144c  
 Queensland Botany Section, 1573  
 Queensland Bureau of Sugar Experiment Stations, 3133  
 Queensland Department of Agriculture and Stock, 2179  
 Queensland Government Statistician (Solomon, S. E.), 4080o  
 Queiroz, J. de B. R., 126  
 de Querquis, F., 3742  
 Quidet, P., 2375c  
 Quimba, G. P., 1552, 3512  
 Quinlan-Watson, T. A. F., 3208  
 Quinn, D. G., 1418  
 R., D. E., 30881  
 van Raalte, D., 2887r  
 van Raalte, M. H., 3185  
 Rackov, V. M., 2393  
 Rada, E. L., 3916q  
 Rademacher, B., 3502  
 Radovanović, V., 263  
 Raggio, M., 2219  
 de Raggio, N. M., 2219  
 Raheja, P. C., 1122, 1137, 1138, 1139  
 Rahn, E. M., 1579, 3548  
 Rajat De, 4055  
 Rakitin, Ju. V., 3293  
 Raleigh, G. J., 1624  
 Raleigh, S. M., 1603t, 1603u, 1603v  
 Rambier, A., 1490  
 Ramig, R. E., 1406  
 Ramiro, M. P., 3088m  
 Ramos, F. V., 2077  
 Ramsey, G. B., 2067, 3402, 3578  
 Ramsfjell, T., 3394  
 Randall, T. E., 735  
 Randhawa, G. S., 13991, 3312n  
 Ranganathan, V., 2108  
 Ranghel Galindo, A., 1017  
 Rao, D. A. A. S. N., 1187r  
 Rao, M. V. V., 471  
 Rappley, L. E., 919  
 Rappley, R. D., 3916n  
 Raski, D. J., 2473  
 Rasmussen, A. O., 927q, 1950f  
 Rastegaeva, E. M., 3694  
 Ratkovich, M., 1986  
 Ratera, E. L., 693  
 Raucourt, —, 2420, 2498  
 Ravault, L., 3609  
 Rawlins, W. A., 752, 753, 3614  
 Raychaudhuri, S. P., 4080e  
 Raymond, C. B., 3674r  
 Rayner, R. W., 2049, 3020, 3021  
 Re, R. R., 1853  
 Rea, H. E., 101  
 Read, W. H., 2590  
 Ready, D., 2241  
 Reath, A. N., 2601  
 Rebours, H., 296, 1011e, 1011f, 23751, 2375m, 2375n, 2909, 3917  
 Redemann, C. T., 3192  
 Redit, W. H., 3953  
 Reed, C. F., 2554, 2857  
 Reed, J., 3492x  
 Reed, J. P., 756, 3567  
 Rees, W. J., 618, 1020  
 Refatti, E., 3381, 3399  
 Regel, C., 3330  
 Reich, —, 324  
 Reich, H., 347, 382, 1540t  
 Reid, R. D., 3360  
 Reid, W. D., 3392

# INDEX OF NAMES

- Reiff, M., 3448  
Reimer, F. C., 1370, 3246  
Reinders-Gouwentak, C. A., 3645  
Reinecke, V., 562, 1621  
Reinhardt, J. F., 1373  
Reinking, O. A., 594, 2995  
Reitsma, J., 1180, 1187s, 1720, 1721, 17251, 2010, 2031  
Reitz, H. J., 957, 961, 989, 2919  
Renaud, M., 3963i  
Renner, M. J., 1508  
Residence Générale de la Republique Française au Maroc, 2955  
Reti, L., 2832n  
Reuther, W., 960, 2907, 2915, 2917  
Reyes, G. M., 4080p  
Reynard, G. B., 684  
Reyne, A., 3992  
Reynolds, H. T., 749  
Reynolds, J. D., 3674s  
Rhoads, A. S., 2453  
Rhodes, A., 2240  
Rial Alberti, F., 1183  
Riaz-ur-Rahman, 234g, 687y  
Ribbands, C. R., 848, 1378  
Ribeiro, D. J., 1825  
Ribeiro dos Santos, S., 777  
Ricci, A., 2299  
Rice, E. L., 1294  
Rich, A. C., 2349  
Rich, A. E., 759  
Rich, S., 2519, 2656  
Richard, J., 1814  
Richards, A. A., 1884  
Richards, A. V., 938, 2003e, 2109, 3976, 4014  
Richards, B. L., 333, 336  
Richardson, C. H., 1502, 3433  
Richardson, D. A., 3214  
Richardson, H. P., 2493  
Richter, H., 3707, 3708  
Richter, W., 1207  
El Ridi, M. S., 2283v  
Riera, F. J., 2353  
Ries, V. H., 2127  
Riethus, H., 1744  
Rigney, J. A., 1250  
Rijkstuinbouwvoorlichtingsdienst, The Hague, 2180  
Riker, A. J., 2267, 2854, 3211  
Riley, J. P., 3812  
Riollano, A., 1107  
Ripert, F., 4080q  
Ripper, W. E., 3492u, 3787  
Ripley, P. O., 510t  
Rissinger, M., 1343  
Ritchie, E., 800  
Rivera H., R., 1024  
Rivers, T. H., 3312o  
Rivnay, E., 1493  
Rjadnova, I. M., 150, 1371  
Roark, R. C., 431p  
Robb, J., 3493a  
Robbins, W. R., 251  
Robbins, W. T., 2074  
Robbins, W. W., 486, 1204  
Roberts, A. N., 2357, 3892  
Roberts, E. A. H., 1331t, 3088n, 4080r  
Roberts, F. M., 1710  
Roberts, H. A., 2562  
Roberts, K. C., 1090  
Roberts, R. H., 2347  
Robertson, N., 3873  
Robertson, N. F., 2024, 2025  
Robertson, R. M., 3866  
Robertson, R. N., 234o, 3200  
Robinson, A. G., 2493  
Robinson, A. R., 17  
Robinson, J., 2604  
Robinson, J. B. D., 1118, 3064  
Robinson, W. O., 2257  
Roby, F., 127, 128  
Rockland, L. B., 990  
(Rodeck, H. G., Editor), 4111  
Rodionenko, G. I., 3870  
Rodney, D. R., 2320  
Rodrian, —, 3474  
Rodrigo, P. A., 2632  
Rodrigues, A., 3332  
Rodriguez, A., 3007  
Rodriguez, J. G., 1784, 2593  
Rodriguez Cabrera, M., 1105  
Rodwell, C. N., 836h  
Rodzabli, A. D., 3244  
Roed, H., 2636  
Roesler, R., 3415  
Roessl D., H., 110  
Roger, B. E., 2374  
Rogers, H. T., 1246  
Rogers, W. S., 1410, 2435  
Rogov, N., 2397  
Rohrbaugh, P. W., 29681  
Rohwer, C., 109p  
Rojas Peña, E., 1032  
Roland, G., 3621  
Rolinson, G. N., 3228e  
Romaško, I. S., 2503  
Romeike, A., 2759  
Romney, V. E., 826  
Rönnebeck, W., 1761  
van Rooyen, C. F., 2790, 2791  
Roper, B. E., 3950  
de Ropp, R. S., 109q, 1289  
de Rosa, M., 1426  
Rose, D. H., 3953  
Rosella, E., 163, 367  
Rosen, H. R., 2871  
Rosendo Velasquez, B., 1025  
Rosenquist, E. A., 2985  
Rosenstiel, R. G., 3409  
Rosillo, M. A., 1811, 2786  
Ross, A. A., 1632  
Ross, A. F., 2437  
Ross, A. G., 2832m  
Ross, E., 308  
Ross, H., 1733  
Rossi, F., 2293, 2375o  
Rost, C. O., 3632  
Rostirolla, G., 1441  
Roston, P. J., 106  
Rösler, P., 96  
Rotaeche, C. E., 3657  
Rothamsted Experimental Station, 1237, 1238, 4139, 4140  
Rothrock, J. W., 799  
Rotor, G., Jr., 893, 2868  
Rouffa, A. S., 3916r, 3916s  
Rouir, E. V., 3155  
Rousseau, A., 3831m  
le Roux, M., 1946  
le Roux, M. S., 291  
Rowley, M. W., 1100  
Roy, R. S., 3576  
Royal Institute for the Indies, Amsterdam, 1211  
Royal Institute for the Tropics, Amsterdam, 4104  
Royal Society, London, 3146  
Royal Society, Symbols Committee, 3147  
Rubber Research Institute of Malaya, 2169, 4033, 4130  
Rubber Research Scheme, Ceylon, 1218  
Rubin, B. A., 706, 1996, 2305, 3951  
Rubin, S. M., 271  
Rubin, S. S., 174, 175  
Rudakov, K. I., 1614  
Rudorf, W., 698, 1732  
Ruehle, G. D., 932, 1009, 3025  
Rui, D., 1441, 1451, 3381  
Ruinen, J., 4030, 4031, 4032  
von Rümker, R., 3696  
Rumley, G. E., 2844  
Rungs, C., 2490  
Runov, V. I., 3606  
Rupčeva, I. A., 48, 49, 109f  
Rusanova, A. P., 688i  
Rusiašvili, I. L., 3437  
Russell, Sir E. J., 3100  
Russell, E. W., 710  
(Russell, E. W.), 3100  
Russell, R. S., 1296, 1297  
Russo, F., 2894, 2895  
Russo, G., 360  
Rust, I., 3835  
Rust, R. E., 3568  
Rustenburg Tobacco Research Station, 1796  
Rutschky, C. W., 3633  
Rutter, A. J., 27  
Ryall, A. L., 948  
Ryan, M., 3705  
Ryan, M. H., 3228w  
Ryker, T. C., 470, 496, 509  
Ryžkov, V. L., 778, 1806

# INDEX OF NAMES

- Sabelyeva, O. N., 717  
 Sacay, F. M., 1815e  
 Saccas, A., 4010  
 Sacco, P., 1816  
 Sachs, H., 1908  
 Sachs, L., 2684  
 Sadasivan, V., 2994  
 Sáenz Maroto, A., 1047  
 Šaitan, I. M., 3247  
 Saito, K., 844, 2838  
 Sakaguchi, M., 1911  
 Sakurai, S., 646  
 Saldarriaga V., M., 1053  
 Saleh, W., 797  
 Salisbury, Sir E., 2284  
 Salmon, E. S., 811  
 Salter, R. M., 4110  
 Samantarai, B., 1260  
 Samoilova, S. A., 94  
 Samuels, G., 3063  
 Samygin, G. A., 47, 109r  
 Sanders, W. T., 4099  
 Sanderson, M., 109s, 2203  
 Sankarasubramony, H., 2992  
 Šannikov, V. S., 164, 1446  
 Šantariović, P. C., 3828  
 Šantavý, F., 2793  
 São Paulo Agricultural Institute, Brazil, 4141  
 Šapošnikov, G. H., 3419  
 Šapožnikov, D. I., 25  
 Saravia, M., 1016  
 Sarawak Department of Agriculture, 3134  
 Sartoris, G. B., 1109, 4057  
 Šaškina, L. M., 1411  
 Sasser, J. N., 2735, 2782  
 Satarova, N. A., 35  
 Satchell, D. P., 281  
 Satyanarayanmurthy, K., 651  
 Saunder, D. H., 1317  
 Saunders-Singer, A. E., 2280  
 Savage, E. F., 488  
 Savary, A., 373, 3492v  
 Saveljeva, O. N., 706, 1753  
 Sax, K., 914, 2322  
 Sayre, C. B., 3653  
 Scaramuzza, L. C., 1161  
 Scaramuzzi, F., 2291, 2808  
 Scaramuzzi, G., 795b, 3386  
 Searth, G. W., 3167  
 Ščastliviy, A. K., 234p  
 Ščepotjev, F. L., 299, 2411, 2412  
 Schacht, W., 1195  
 Schaeffer, L., 1538  
 Schär, A., 295  
 Schatz, A. S., 2930  
 Scheffer, R. P., 548, 2709a  
 Scheil, W., 1395  
 Schellenberg, A., 3492w  
 van Scheltinga, J. J. de B., 2553  
 Schexnayder, C. A., 443  
 Schlesinger, W., 2111q  
 Schmalfuss, K., 91  
 Schmechel, D. S. O., 3986  
 Schmid, G., 3230  
 Schmid, W., 3312p  
 Schmidt, E., 3088o  
 Schmidt, G., 1506  
 Schmidt, H., 3377  
 Schmidt, W. A., 667, 2691  
 Schmill, M. M., 3311  
 Schmitt, C. G., 3467  
 Schmitt, L., 524  
 Schneider, E. O., 3733  
 Schneider, F., 368, 1530  
 Schneider, H., 2899, 3312q  
 Schneider, R., 3707, 3708  
 Schnell, R., 2005, 2796  
 Schnelle, F., 13, 109t  
 Schoeb, E. J., 17  
 Schönberg, A., 1818  
 Schönherr, K.-E., 757  
 van Schoonneveldt, J. C., 1091  
 Schoorel, A. F., 1176  
 Schopmeyer, G. E., 768a  
 Schopp, R., 1646  
 Schrader, O. L., 2680  
 Schrank, A. R., 1269, 3228x  
 Schreier, O., 1725m, 2587  
 Schroeder, C. A., 2889, 4077  
 Schropp, W., 1610  
 Schrumpf, W. E., 2710  
 Schultz, E. S., 767, 2421, 3699  
 Schult, H., 2887s  
 Schulz, F., 1332  
 Schuphan, W., 537, 1789d  
 Schurman, D. C., 1742  
 Schwabe, W. W., 1883  
 Schwalm, H. W., 1613  
 Schwanitz, F., 868, 3162, 3834  
 Schwanitz, H., 3834  
 Schwartz, E., 1779  
 Schwartze, C. D., 1362  
 Schweiheimer, W., 2111r  
 Schweizer, J., 3039, 3077, 4026, 4028  
 Sciaroni, R. H., 552  
 Scognamiglio, A., 3459  
 Scoles, C. L., 2099  
 Scotland, Department of Agriculture for, 676  
 Scott, C. E., 656  
 Scott, D. H., 2283f, 2390  
 Scott, L. E., 2673  
 Scott, N. J., 841  
 Scott, W., 4064  
 Scott, W. A., 1791  
 Scotti, T., 3724a  
 Scottish Society for Research in Plant-Breeding, 1239  
 Scudder, W. T., 3690  
 Scully, N. J., 1298  
 Seale, C. C., 3022  
 Sealy, J. R., 1910  
 Seay, W. A., 2215  
 Seeley, J. G., 898, 899, 3871, 3889  
 Seely, C. I., 436  
 Seftelj, I. M., 4  
 Seikel, M. K., 2839, 2850  
 Seinhorst, J. W., 1771  
 Seixas, C. A., 2054  
 Sélariès, P., 3724e  
 Sell, H. M., 3192  
 Sellke, R., 1517  
 Sellschop, J. P. F., 831  
 Selman, G. G., 1687  
 Sempio, C., 38  
 Senn, T. L., 1434e  
 de Senna Braga, O., 3778  
 Sergeev, L. I., 211  
 Sergeeva, V. D., 3338  
 Serra, G., 1044  
 Serrano, C., 2065, 3085  
 Servazzi, O., 3488  
 Service des Conseillers d'Horticulture de l'État, Belgium, 481  
 Service de la Défense des Végétaux, Rabat, 3422  
 Service de l'Horticulture Mission Horticole, Rabat, 3680  
 Service de la Protection des Végétaux, Strasbourg, 3613  
 Seshadri, T. R., 3229e  
 Sessler, W. M., 995, 1081  
 Sevenster, S., 708  
 Severin, H. H. P., 3658, 3659, 3674t, 3865, 3877, 3916t  
 Severson, G. M., 1858  
 Sexsmith, J. J., 510u, 2547  
 Shah, S. M. I., 10  
 Shah, R., 1954, 3059  
 Shanks, J. B., 900, 3904  
 Sharma, R. C., 1675  
 Sharma, S. L., 1142, 1143, 1166  
 Sharma, V. N., 2832d  
 Sharp, D. G., 2792d  
 Sharp, S. S., 2511  
 Sharville, E. G., 355, 356  
 Šhaulis, N., 3328  
 Šhaulis, N. J., 2566  
 Shaw, A. C., 1331q  
 Shaw, F. R., 366  
 Shaw, J. G., 981, 2937, 3936  
 Shaw, M., 3167  
 Shaw, R. H., 2712  
 Shay, J. R., 2536s  
 Shear, G. M., 3628  
 Shear, S. W., 258  
 Shee, B. W., 4044  
 Sheffield, F. M. L., 1034, 2029  
 Shelton, F. A., 2674  
 Sherman, G. D., 2008  
 Sherman, R. W., 109u  
 Sherwood, L. V., 1555  
 Shessler, S., 1430



# INDEX OF NAMES

- Shewell-Cooper, W. E., 1950m  
(Shewfelt, A. L.), 2158  
Shields, L. M., 2283w  
Shifriss, O., 688j  
Shih, S. C., 1112, 1113  
Shiraki, T., 148  
Shirley, R. L., 18  
Shivapuri, T. N., 510v  
Shoji, K., 2238  
Shrivastava, R. C., 1863, 3799  
Shulkcum, E., 3727  
Siaens, M. F., 2375p  
Siddiqui, S., 2832d  
Sideris, C. P., 2066  
Siegel, S. M., 40, 2236  
Sierra, H. M., 1831  
Siino, H., 927s  
Silberschmidt, K., 663  
Sill, W. H., Jr., 2708v  
de Silva, C. A., 2068  
Silva, P., 1187t  
Silveria, A., 1616  
Simmonds, F. J., 1159  
Simmonds, H. W., 3937, 3938  
Simmons, J. A., 1603h  
Simmons, P., 2001  
Simonov, I. N., 243  
Simpson, K., 93  
Simura, T., 1174, 1181, 2107  
Sina, A., 1818  
Sinclair, W. B., 2924  
Sinclair, W. K., 1749  
Sinden, J. W., 1665, 1668, 1669  
Singapore Botanic Gardens,  
1244h  
Singh, D., 4012  
Singh, D. P., 3800  
Singh, K., 1867  
Singh, R. N., 1725j  
Singh, S., 991  
Singh, S. B., 1110  
Singh, T. C. N., 1954  
Sinha, N. P., 1731  
Sinickaja, D. A., 1875  
Sironval, C., 3216  
Sisakjan, N. M., 32, 86, 292,  
768q, 2305  
Sisal Experimental Station,  
Tanganyika, 1240  
Šišelova, N. A., 1614  
Sites, J. W., 956, 961, 2919  
Sitton, B. G., 2408, 2567  
Sivori, E. M., 869, 3193  
Skard, O., 3307  
Skelding, A. D., 618  
Skepper, A. H., 185, 3308  
Skillman, E., 1906  
Skodvin, K. H., 218  
Skolko, A. J., 1650  
Skripicyna, N. E., 3648  
Skvorcov, A. F., 2003f  
Slate, G. L., 239, 1431, 2959  
Slater, Sir W., 3145  
Slater, R. R., 70  
Slife, F. W., 1583  
van Slogteren, E., 2720  
Sloboff, W. C., 1720, 1721,  
1725 l, 2010, 2031, 2812  
Small, J., 1331r  
Small, T., 3724f  
Smart, H. F., 648  
Smece, C., 2002  
Smeets, L., 3645  
Smirnoff, W., 2944, 2945  
Smirnov, N. P., 3177  
Smirnov, V. F., 1367  
Smirnow, L., 918  
Smit, B., 1988  
Smith, A. M., 93  
Smith, B. C., 1924, 2877  
Smith, B. P., 3159  
Smith, C. F., 1540u, 1656  
Smith, C. T., 2332  
Smith, E. L., 234q  
Smith, F. B., 1540v  
Smith, F. F., 536, 1717, 2591,  
2594, 2848, 2887e, 3852,  
3883, 3885, 3893  
Smith, F. G., 1940  
Smith, F. O., 2461  
Smith, F. W., 2708s  
Smith, G. E., 585  
Smith, H. C., 1461  
Smith, H. H., 771  
Smith, K. M., 619, 838, 2132,  
4100  
Smith, M. A., 2067, 3402, 3578  
Smith, M. G., 123  
Smith, N. G., 1205  
Smith, N. M., 3067  
Smith, O., 766, 1589, 1591,  
1599, 1603g, 2746  
Smith, O. J., 2708w  
Smith, P. F., 960, 2907, 2915,  
2917  
Smith, P. G., 650, 2695  
Smith, R. F., 2229  
Smith, W. K., 2513  
Smith, W. L., Jr., 1770, 3723  
Smock, R. M., 1206, 3302  
Smoot, J. J., 3637  
Smoey, K. M., 2916  
Smyth, V. D. O., 1940  
Snapp, O. I., 387  
Šneider, Ju. I., 1984  
Snijders, J. H., 3494  
Snyder, E., 2396  
Snyder, J. C., 248, 1358  
Snyder, R. J., 3856  
Snyder, W. E., 837, 1578, 3537  
Sodhi, G. S., 1075  
Soetardi, R. G., 3978  
Sokol, P. F., 761  
Sokolova, E. P., 3272  
Sokolova, V. E., 1753  
Solaroli, V., 2508, 2527  
Soliman, G., 797  
Solis R., F., 3996  
Solomon, S., 471  
Solomon, S. E., 4080o  
(Solomon, S. E.), 1099  
Solovjeva, M. A., 1356  
Somers, G. F., 2222, 2223,  
3229f  
Sonesson, N., 3312r  
Sonwalkar, M. S., 4078  
Sorber, D. G., 2414  
de Sornay, P., 3066  
Soubihe Sobrinho, J., 2316  
Soures, B., 2484  
Sousa, L. O. M. da Costa E.,  
266  
Sousa de Macedo, J. C., 3994  
South Africa, *see* Union of  
South Africa  
South African Sugar Journal,  
2181  
(South Australia Agricultural  
Department), 3522  
Southern Rhodesia Depart-  
ment of Agriculture, 2147,  
2160, 2161  
Southwick, F. W., 2346  
Southwick, L., 510w  
de Souza, A. J., 1187m, 2053  
Souza, D. A., 431q  
Sparks, W. C., 1785  
Sparrow, A. H., 2715  
Specht, A. W., 3407  
Speer, M., 1066  
Speese, B. M., 2887b  
Speirs, J. M., 1244i  
Spencer, J. L., 2847  
Speroni, H. A., 1979, 2003g  
Speyer, (W.), 3599  
Speyer, W., 688k, 3595  
Spina, P., 1375  
Spirhanzl, J., 173  
Spitzer, C. H., Jr., 3408  
Spoon, W., 1081, 3793  
Sprague, R., 2458  
Sprau, F., 3697  
Sprinks, F. O., 2095  
v. Spronsen, A. C., 565  
Spurling, M. B., 962, 1962  
Spyhalski, E., 1513  
Squires, D. W., 3427  
Srb, A. M., 109w  
Sreenivasan, A., 1642  
Sreenivasaya, M., 1076  
Staaldune, D., 2418h  
Stafford, E. M., 2507  
Stahler, L. M., 1603w, 2251  
Stahmann, M. A., 2770  
Stamper, E. R., 491, 496, 497,  
509  
Stanberry, C. O., 2336, 2375q  
Staniland, L. N., 1886, 1887  
Stanton, W. R., 1749  
Stapleton, N. M., 1725n  
Stapley, J. H., 862, 1523, 3471  
Stapp, C., 829, 1763, 1769

# INDEX OF NAMES

- Starnes, O., 754, 3492x, 3567  
 Starygina, L. P., 1614  
 Statens Forsøgsvirksomhed i  
 Plantekultur, 300j, 3492y,  
 3505, 3559r, 3674u 3678  
 Stearn, W. T., 867  
 Stearns, C. R., Jr., 3947  
 Stebbins, C. L., Jr., 2133  
 Steelant, L., 5  
 Steere, R. L., 3762g, 3762h  
 Steib, R. J., 3069, 4058  
 Steinbach, H. B., 3229g  
 Steinberg, R. A., 783, 2259,  
 2754  
 Steineck, O., 3691  
 Steiner, G., 2421  
 (Stellenbosch-Elsenburg Col-  
 lege of Agriculture), 2170  
 Stellwaag, F., 3416  
 Stenuit, D., 3622  
 Stepanov, K. M., 1982  
 Stepanov, S. N., 1357  
 Stephen, A. M., 2832o  
 Sterling, C., 1264  
 Sterling, C. R., 437  
 Stern, F. C., 1914, 3908  
 Stern, W. R., 4036  
 Stevens, W. L., 2202  
 Stevenson, G. C., 493, 1104,  
 3053  
 Stevenson, F. J., 1730, 3675  
 Steward, F. C., 85, 3229j  
 Stewart, A. B., 1012  
 Stewart, N., 221  
 Stewart, W. S., 964, 3948  
 Stickley, R. M., 3270  
 Stickney, F. S., 2001  
 de Stigter, H. C. M., 2603  
 Still, G. W., 425  
 Stiller, —, 3281  
 Stirling, W. F., 927r, 1892  
 Stitt, L. L., 3571, 3627  
 Stoddard, D. L., 528, 675  
 Stoddard, E. M., 1615, 2469,  
 2846  
 Stoeckeler, J. H., 326, 2541  
 Stoev, K. D., 300h, 300k  
 Stokes, D. R., 2364  
 Stoletov, V. N., 3197  
 Stoll, K., 198, 1438  
 Stolze, K. V., 1628  
 Stoner, W. N., 2666, 2694  
 Storage Investigations, Kent-  
 ville, N.S., 2158  
 Storey, H. H., 3966  
 Storey, I. F., 1662  
 Storrs Agricultural Experiment  
 Station, Connecticut,  
 4153d  
 Storrs, E. E., 427  
 Stout, G. L., 431s  
 Stout, P. R., 22831, 3649  
 Stover, R. H., 1807, 2775,  
 2792e, 2792f, 3749, 3755  
 (Strachan, C. C.), 2158  
 Strasheim, A., 1255  
 Straus, W., 2231  
 Street, H. E., 1314  
 Street, R. W., 2303  
 Strickland, A. H., 3981  
 Strickland, L. F., 1928  
 Stringer, A., 2536w  
 Stroganov, A. K., 1725o  
 Stroganov, B. P., 3296  
 Stromme, E. R., 3588  
 Strong, M. C., 3666  
 Struble, F. B., 2454  
 Struckmeyer, B. E., 2347, 3903  
 Strydom, J. C., 2887t  
 Stuart, N. W., 98, 858, 882,  
 886, 1902, 1915  
 Stubbings, W. A. K., 1491,  
 2477  
 Studitskij, A. N., 3150  
 van Stuivenberg, J. H. M.,  
 2425  
 Sturdy, M., 234c, 3306  
 Stutz, R. E., 3166  
 Suárez de Castro, F., 3001,  
 3004, 3005, 4005  
 Subba Rao, N. V., 2536t  
 Subramanyam, K., 2852  
 Sudnik, N. C., 3280  
 Sugawara, T., 519, 1682, 1820  
 Sugiyama, T., 591  
 Sukh Dev, 1870h  
 Sumerford, W. T., 1540w  
 Summerland, B.C., Dominion  
 Experimental Station,  
 3135  
 Summerland, B.C., Fruit and  
 Vegetable Products Lab-  
 oratory, 2158  
 Sun, V. G., 1141, 4043, 4080s  
 Suomela, H., 2823  
 Sušickij, L. A., 1476  
 Sutcliffe, H. M., 3792  
 Sutherland, W. W., 3492m  
 Šutova, N. N., 985, 3445  
 Sutton, M. D., 3393  
 Suzuki, M., 1832  
 Švedskija, Z. M., 1699  
 Svenson, B.-G., 1334  
 Svensson, V., 622  
 Svešnikova, I. N., 3862  
 Swain, T., 3304  
 Swaminathan, M. S., 3724g  
 Swanback, T. R., 2781, 3739  
 (Swann, I. H.), 2158  
 Swartwout, H. G., 409  
 Swaziland Department for  
 Native Land Settlement,  
 3144d  
 Sweden, Kungl. Lantbruks-  
 akademien, 2193d  
 Sweet, R. D., 1581, 3559g,  
 3559s, 3674r  
 Swerts, E., 1352, 1359  
 Swets, W. A., 2238  
 Swingle, C. F., 205, 2339  
 Swithinbank, D. J., 397  
 Sy, M., 1501  
 Sylvén, E., 381  
 Sylvestre, E. S., 6881, 688m  
 Syubarova, E. P., 3280  
 Szember, A., 2341  
 Szkolnik, M., 2990  
 Tabenckij, D. A., 65  
 Taborda Pessanha, M. V.,  
 1086  
 Tafuro, A., 2557  
 Tafuro, A. J., 1550  
 Tagееva, S. V., 66  
 Tagorda, Q. T., 1815e  
 Taguchi, R., 1385, 1673  
 Tai, E. A., 1964  
 Takahashi, M., 2079  
 Takasugi, K., 2652  
 Taki, K., 1606  
 Takimoto, S., 688a, 688b,  
 795d, 795e  
 Talbert, T. J., 3256, 3312s,  
 3327  
 Talburt, W. F., 2375d  
 Talgeri, G. M., 1019  
 Tallachini, M. E., 3282  
 Talley, E. A., 1788  
 Talley, L. E., 3229a  
 Talley, P. J., 451, 500  
 Tamm, C. O., 2204  
 Tamura, T., 885  
 Tan, A. K., 515  
 Tang, W. H., 3831n  
 Tanganyika Coffee Research  
 and Experimental Station,  
 3136  
 Tanganyika Department of  
 Agriculture, 2182  
 Tanganyika Sisal Experimental  
 Station, 1240  
 Tanner, C. C., 2741  
 Tanner, W. L., 439  
 Tantau, M., 1207  
 Tarantola, M., 1281  
 Tarasevič, L. M., 1806  
 Tarjan, A. C., 909, 1930  
 Tašmatov, L. T., 2900  
 Tasugi, H., 927s  
 Tatarincev, A. S., 3272  
 Tatchell, A. R., 3791  
 Tatchell, R. T., 1331q  
 Tatman, E. C., 627  
 Tavazde, P. G., 2394  
 Taylor, C. A., 823  
 Taylor, G., 3908, 3916u  
 Taylor, G. M., 927t  
 Taylor, J., 2200, 2201  
 Taylor, M. E., 1743  
 Taylor, R. H., 3463

# INDEX OF NAMES

- Tchouvakhine, P. V., 3432, 4061  
 Teillard, —, 2283x  
 Telfer, S. S., 487  
 Teller, M. N., 355, 356  
 Templeman, W. G., 3503  
 Tereščenko, E. F., 744  
 Terman, G. L., 716, 1789e  
 Terra, G. J. A., 2971  
 Terry, C. W., 1603x, 3479  
 Tešić, Ž., 688n  
 Testa, E., 2044  
 Testa, J., 2037, 2038, 2045  
 Teuscher, H., 1933  
 Tew, R. P., 3469  
 Texas Agricultural Experiment Station, 2183  
 Thaur, J., 688o  
 Thé, J., 1939  
 Theis, T. N., 2854  
 Thiel, J., 1876  
 Thiem, H., 1540x, 3379, 3430, 3431, 3442, 3492z  
 Thimann, K. V., 69, 70, 1291, 1603y  
 Thirumalachar, M. J., 1870k  
 Thom, J. M. S., 2199  
 Thomas, A., 3030  
 Thomas, C. A., 2794  
 Thomas, F. B., 194  
 Thomas, H. E., 1468  
 Thomas, H. R., 592, 593  
 Thomas, I., 3724n  
 Thomas, J. B., 3229h, 3831o  
 Thomas, J. R., 510r  
 Thomas, M., 3229i  
 Thomas, M. D., 1308, 3378  
 Thomas, P. H., 151, 1340  
 Thomas, R. S., 1864  
 Thomas, W. D., Jr., 2844, 3844  
 Thomas, W. D. E., 1301  
 Thomas, W. L., 4101  
 Thompson, A., 2986  
 Thompson, A. H., 2327  
 Thompson, F. C., 3784  
 Thompson, H. C., 557, 3584, 3690  
 Thompson, J. F., 85, 3229j  
 Thompson, L. A., 2319  
 Thompson, W. L., 3947  
 Thornberry, H. H., 2449  
 Thorne, D. W., 310  
 Thorne, G., 431b  
 Thornton, B. J., 444  
 Thorsrud, J., 3319, 3321  
 Thung, T. H., 1877, 2725, 2842  
 Thurston, H. W., Jr., 410  
 Tiberio, M., 2982  
 (Ticquet, C. E.), 97  
 Ticquet, C. E., 1331s  
 Tiedjens, V. A., 2582  
 Tilford, P. E., 906  
 (Tilford, P. E.), 3126  
 Tilkin, N., 573, 659  
 Till, M. R., 430  
 Timberlake, C. F., 3316  
 Timmons, F. L., 434, 484, 3497  
 Tims, E. C., 2708r  
 Tingey, D. C., 434, 3497  
 Tinsley, T. W., 1756  
 Tirado T., A., 3775  
 Tirado Sulsona, P., 2672  
 Tirelli, M., 1505  
 Tischer, J., 3820  
 Tischler, N., 1552, 3512  
 Titova-Molčanova, Z. Ja., 3337  
 Tittley, E. A., 416  
 Titus, R. W., 1187f  
 Tizio, R. M., 3971  
 Tkačenko, F. A., 564  
 Tobacco Research Station, Rustenburg, 1796  
 Tobacco Research Station, Trelawney, 4142  
 Tocklai, Indian Tea Association, 1224  
 Todd, J. M., 2024, 3982  
 Togari, Y., 1692  
 du Toit, J. J., 3635  
 du Toit, J. L., 2085, 4080t  
 Tokumasu, S., 538  
 Tolhurst, J., 3363  
 Tomalin, T. E., 234b, 234r  
 Tombsi, L., 1280, 1281, 1282  
 Tometorp, G., 514, 3674v  
 Tomlinson, F. R., 1792  
 Tomlinson, W. E., Jr., 2438, 2475, 3435  
 Tompkins, C. M., 876, 925, 1885, 3858, 3865, 3877  
 Toole, E. H., 76  
 Topi, M., 290  
 Topley, B., 2536u  
 Torgenson, D. C., 1479  
 Torka, M., 700  
 Torpen, E., 228  
 Torrey, J. G., 67  
 Torrisi, M., 2894, 2895  
 Tosco, U., 2949  
 Tosello, A., 2053, 3998  
 Toth, S. J., 1303  
 Tourón, E. A., 3436  
 Toyomura, S., 1881  
 Tracey, M. V., 2760, 2762, 2763, 2765  
 Trappmann, W., 1515  
 Trautner, E. M., 1331t  
 Travers, S. J., 435  
 Traversi, B. A., 734, 1455  
 Travina, O. K., 3923  
 Trébuchet, G., 576  
 Treccani, C. P., 2314, 2368, 2395, 2688  
 Trehan, K. N., 1019  
 Trelawney Tobacco Research Station, 4142  
 Tremblay, F. T., 2580  
 (Tressler, D. K., Editor), 4143  
 Triana, J. V., 2830, 3019  
 Tricánico, S., 2195  
 Trione, S., 3286  
 Tristram, G. R., 2283y  
 Trocmé, S., 2375c  
 Troutman, J., 2776  
 Trowell, G. F., 2351  
 Trulevič, V. K., 1735  
 Trumble, H. P. C., 1968  
 Truog, E., 2215  
 Trusevič, G. V., 3261  
 Tsai, T. K., 1160  
 Tseng, P. M., 4046  
 Tsi, C. S., 1657  
 Tucker, B. D. A., 3313  
 Tucker, C. M., 876  
 Tukey, L. D., 3317  
 Tueva, O. F., 94  
 Tunblad, B., 3461, 3881, 3882  
 Turbin, N. V., 660  
 Tureckaja, R. H., 539  
 Turica, A., 383, 1975  
 Turk, L. M., 1305  
 Turlapova, A., 3679  
 Turnbull, J., 3001  
 Turner, A., 113  
 Turner, J. S., 3229k  
 Turner, N., 755, 2779  
 Turner, P. E., 1096, 3062  
 Tyagi, B. P., 510v  
 Tyrwhitt, J., 2116  
 Tysser, H. F., 2184  
 Uganda Department of Agriculture, 1241, 3137  
 Ullal, R. R., 1316  
 Ulmann, M., 4102  
 Ulrich, R., 225, 2283z  
 Underhill, G. W., 2481  
 Underwood, J. C., 990  
 Union of South Africa Department of Agriculture, 2185  
 (Union of South Africa, Division of Botany and Plant Pathology), 2153  
 (Union of South Africa, Division of Entomology), 2173  
 (Union of South Africa, Division of Horticulture), 2142  
 United Planters Association of Southern India (U.P.A.S.I.), 3138  
 University Library, Cambridge, 1244d  
 Uota, M., 204  
 Urhan, O., 3014  
 Uribe Henao, A., 4023  
 U.S.A., Western Regional Peach Marketing Project, 234t



# INDEX OF NAMES

- U.S. Department of Agriculture, 109v, 688p, 1540y, 1693, 1729, 2193f, 2740, 2832p, 4145
- U.S. Department of Agriculture, Bureau of Agricultural Economics, 3563
- U.S. Department of Agriculture, Bureau of Agricultural and Industrial Chemistry, 820
- U.S. Department of Agriculture, Bureau of Entomology and Plant Quarantine, 640, 687g, 927d, 1540c, 2708d
- U.S. Department of Agriculture, Cooperative Research and Service Division, Farm Administration, 1995
- U.S. Department of Agriculture, Division of Fruit Insect Investigations, 365
- U.S. Department of Agriculture, Division of Special Surveys, 2365
- U.S. Department of Agriculture, Division of Weed Investigations, 3495
- U.S. Department of Agriculture, Office of Foreign Agricultural Relations, 4144
- Ushirozawa, K., 2301
- Ustinova, E. I., 1725p
- Utah Agricultural Experiment Station, 4146
- Vaas, K. F., 2560
- Valentine, D. H., 1895
- Valenzuela, P., 3794
- Vallance, K. B., 2558, 2559
- Vallance, L. G., 495, 1123, 3051, 4054
- Valleau, W. D., 2772
- Valleggi, M., 3290
- Vallevik, G., 3312t
- Valset, K., 3312u
- Vandecaveye, S. C., 1406
- Vanderwalle, R., 631, 1683, 3621
- Vanetti, F., 2703
- Van Geluwe, J., 2557
- Van Geluwe, J. D., 1550
- Van Laan, G. J., 3840
- Vansell, G. H., 1373
- Vanselow, A. P., 2918, 3963a
- Vantsis, J. T., 1315
- Varma, H. P., 1129
- Varma, S. C., 1158
- Varma, S. R., 3565
- Varney, E. H., 2708x
- Vartapetjan, S. M., 696
- Vasconcellos, P. W. C. de, 1186, 2910
- Vasilenko, T. S., 1371
- Vasiljcova, T. M., 3925
- Vatter, A. E., 2449
- Vaughn, J. R., 2885
- Växtskyddsanstalt, Stockholm, 737, 742
- Vayssière, P., 3756
- van der Vecht, J., 2996
- Veenstra, H., 4074
- Veersema, J., 3518
- Veihmeyer, F. J., 181, 184, 1433
- Velázquez B., R., 1028
- Velázquez C., A., 1843
- Veldstra, H., 1284, 1331u
- Venkataramani, K. S., 1724
- Venkataratnam, L., 651
- Ventura, E., 2498, 2523
- Verbruggen, A., 1631
- Verdier, M., 1874
- Verhaar, G., 3049, 4075
- Verhavert, A., 2367
- Verhey, C., 2613
- Verkerk, K., 2645, 2687
- Verma, G. S., 1077, 2654
- Vermaat, J. G., 3968
- Verner, L., 199
- Vicente Arboleda, J., 3085
- Vickery, H. B., 795f
- Vidal, J. P., 2388
- Vidali, A., 3487, 3754
- Viehmeyer, G., 1594
- Vienna, Bundesanst. f. Pflanzenbau u. Samenprüfung, 1242
- Viets, F. G., Jr., 1747, 2618
- Villamil G., F., 2022
- Villarbo, A., 2981
- Villanova, T., 3006
- Villiers, F. H., 2268
- Vincent, A. E., 1339
- Vincent, L. E., 2000
- Vink, A. P. A., 3979
- Vinot, M., 3724i
- Vintinner, F. J., 1603z
- Virginia Agricultural Experiment Station, 4147
- Virginia Polytechnic Institute, Agronomy Department, 3725
- Virtanen, A. I., 2221
- Vismara, C. A., 3674w
- Vites, L. S., 275
- Vitoria, E. R., 1456
- Vittum, M. T., 2599
- Vlasveld, W. P. N., 2460
- Vogel, F., 1208
- Volk, G. M., 1809
- Volk, O. H., 4094
- Volkov, A. N., 1659
- Volkov, I. A., 773
- Volkov, S. A., 137
- Vollema, J. S., 3042, 3043, 3046, 4027
- Volodurskii, N. I., 3744
- Volosky Y., E., 3607
- Volz, E. C., 897, 3888
- Vorobjeva, M., 2111k
- Voronkova, V. Ja., 86
- Vorster, P. W., 1671, 2631
- Voskresenskaja, N. P., 2225
- Vreede, M. C., 2073
- Vrijhof, B., 2348
- van Vuren, J. P. J., 3199
- Vyskrebenceva, E., 2111k
- Vyvyan, M. C., 2351
- Wachs, H., 1521
- Wade, G. C., 339, 713, 1439, 1678, 3590
- Wadleigh, C. H., 1304
- Wadley, B. N., 333, 336
- Wageningen, 3139
- Wageningen, Directie van de Landbouw, 431j
- Wageningen, Institute for the Storage and Processing of Horticultural Produce, 224
- Wageningen, Instituut voor Tuinbouwtechniek, 1226
- Wageningen, Plantenziektenkundige Dienst, 305, 1612
- Waggoner, P. E., 2712, 2747g
- Wahid, M. A., 3069
- Wahl, I., 607, 1879
- Wahlin, B., 448
- Wahnon, J. S., 3351
- Waibel, C. W., 2933
- Wain, R. L., 209, 1700, 2239, 2590
- Waite Agricultural Research Institute, Department of Entomology, 1617
- Wakefield, E. M., 1209
- Wakeland, C., 2536v
- Walker, J., 1925
- Walker, J. C., 547, 723, 1635, 2708y, 2708z, 2724
- Walker, K. C., 420, 1537, 1539, 2534
- Walker, M. N., 567
- Walker, R. E., 1029
- Walker, W. F., 3300
- Wallace, J. M., 2926
- Wallace, P. P., 3598
- Wallace, T., 87, 3205
- Wallen, V. R., 571, 1650
- Wallin, J. R., 2727, 2728
- Wally-van Vreeswijk, A. C., 1836, 3831p
- Walp, R. L., 3916v
- Walter, E. D., 3949
- Walter, E. E., 1577
- Walter, J. M., 675, 688q
- Walter, T. E., 2103

# INDEX OF NAMES

- Walters, H. J., 3746  
Walthier, R., 554  
Wander, I. W., 958  
Wandrek, S. D., 1642  
Wang, S. C., 1115, 1128, 1156, 1187u  
Wangermann, E., 1265  
Wann, F. B., 310  
van der Want, J. P. H., 2842, 2843  
Ward, K. M., 3964  
Wardlaw, C. W., 2060  
Ware, L. M., 522, 639  
Warrington, K., 1307  
Wark, D. C., 1649  
Warmke, G. L., 71  
Warmke, H. E., 71  
Warne, L. G. G., 2647, 2648  
Warren, G. F., 482, 583, 3507, 3555, 3559t  
Warren, G. T., 1134  
Warren, S., 1343  
Warrington, H. P., Jr., 1540f  
Washauer, B., 1725r  
Washauer, B. L., 3634  
Washington State Agricultural Experiment Stations, 1729  
Washington Agricultural Experiment Station, Pullman, 4153o  
Washington State Apple Commission, 222  
Wasserburger, H.-J., 386  
Watanabe, H., 590  
Watanabe, K., 1725q  
Watanabe, T., 680  
Watari, S., 927u  
Watrous, R. C., 3973  
Watson, A. J., 927v  
Watson, D. J., 2742, 2743  
Watson, D. P., 849  
Watson, G. A., 3784  
Watson, J., 1259  
Watt, J. H., 2379  
Wattle Research Institute, 4148  
Watzl, O., 2588  
Waygood, E. R., 1277, 3229 i  
Waywell, C. G., 3544  
Wearn, R. B., 2832a  
Weathers, L. G., 337  
Weaver, L. O., 672, 1473  
Weaver, N., 171  
Weber, G. F., 567, 2701  
Weber, R. P., 2210, 2283i  
Webster, C. C., 1005, 2002  
Webster, R. L., 2536c  
Weed, R. M., 3771  
Weed Classification Committee, Canada, 460  
Weeks, G. W., 2482  
Weeks, T. E., 1449  
Weeks, W. D., 2332, 2346  
Wegenek, E., 1483  
Wei, C. T., 2709a  
Weier, T. E., 1204  
Weinberger, J., 488  
Weinberger, J. H., 2431, 2432  
Weinbrenn, C., 1943  
Weindling, R., 399  
Weinhausen, K., 1207  
Weinman, C. J., 3481  
Weinmann, H., 1945, 1946  
Weintraub, R. L., 2246, 2255  
Weir, T. S., 318  
Weise, R., 15  
Wellensiek, S. J., 2645, 2687, 2860  
Wellhausen, L. J., 578  
Wellington, R., 234s  
Wellman, F. L., 3016  
Wells, D. G., 2612  
Wells, J. S., 2879  
Welsh, M. F., 2440  
Wene, G. P., 2592, 2681, 2940, 2948, 3615, 3945  
Wenhardt, A., 450  
Went, F. W., 1253, 2748  
Wenzl, H., 246, 302, 407, 927h  
Werft, R., 3152  
Werner, H. O., 762, 768r  
Weschcke, C., 1432  
West, C., 229  
West, O., 1182  
West African Cacao Research Institute (W.A.C.R.I.), 3140  
West of Scotland Agricultural College, 3141  
West Virginia Agricultural Experiment Station, 4149, 4153p  
Westcott, C., 2134  
Wester, R. E., 688r, 3601  
Western Canadian Society of Horticulture, 2186  
(Western Province Fruit Research Station), 2174  
Western Regional Peach Marketing Project, Utah, U.S.A., 234t  
Western Regional Research Laboratory, Albany, California, 300m  
Westlake, W. E., 1534, 2528, 2533  
de Wet, A. F., 120  
Wetmore, R. H., 2260, 2261  
de Wever, J., 3790  
Wexelsen, H., 3183  
Weydahl, E., 3307  
van Wezer, A., 2094  
Whatley, F. R., 3160  
Wheeler, E. H., 366  
Whetstone, R. R., 2257  
White, C. W., 510x  
White, D. G., 194, 247, 3317  
White, F. H., 301  
White, H. E., 2847  
White, H. L., 1824  
White, P. R., 3202  
White, W. H., 679  
Whitehead, E. I., 2251  
Whitehead, G. B., 1949  
Wiebosch, W. A., 2573  
Wiehe, P. O., 2002  
Wiede, W., 526, 1561  
Wiersma, J. H. N., 4034  
Wiesmann, R., 369, 370, 431r, 3448  
Wiggins, L. F., 1130, 1169  
Wightman, G. M., 3054  
Wiklander, L., 1748  
Wilcox, A. N., 300b  
Wilcox, J., 2642, 3668  
Wilcox, J. C., 9, 183  
Wilcox, M. S., 3639  
Wilde, M. H., 2248  
Wildman, S. G., 2749  
Wiles, A. B., 2708z, 2709b  
Wilhelm, —, 3473  
Wilhelm, A. F., 2400  
Wilhelm, S., 357, 678, 1468  
de Wiljes, H. G., 4018  
Wilkie, D., 2135  
Wilkinson, B. R., 1363  
Wilks, J. M., 2440  
Willcox, O. W., 1847  
Williams, C. F., 2381  
Williams, C. H. B., 1144  
Williams, H. E., 331  
Williams, H. H., 3159  
Williams, K. T., 21, 23, 1725r, 3634  
Williams, R. C., 3762g, 3762h  
Williams, R. O., 927w, 2136  
Williams, W. T., 2227  
de Willigen, A. H. A., 1751  
Willis, S. J., 465, 510y, 1889  
Wilson, A. E., 955  
Wilmot, R. J., 907  
Wilshaw, R. G. H., 2059  
Wilson, D. G., 2303  
Wilson, E. E., 431s  
Wilson, E. H., 478  
Wilson, G., 2089  
Wilson, G. B., 109a, 2512  
Wilson, G. L., 2216  
Wilson, J., 927x  
Wilson, J. B., 1331v  
Wilson, J. D., 1558, 2699, 3674x  
Wilson, J. R. W., 2540  
Wilson, R. D., 2622  
Wilson, W. F., 491  
Wilson Greene, L., 3810  
Winkler, A. J., 2418g  
Winston, J. R., 1994  
Winter, G., 688s  
Winters, H. F., 2028  
Wintersteiner, O., 1824  
Wisconsin Agricultural Experiment Station, 3144e

# INDEX OF NAMES

Wishart, J., 2137  
Witman, E. D., 3515  
(Witt, M. J.), 2158  
Witte, K., 3369  
Wittwer, S. H., 667, 1675,  
1676, 2601, 3192  
Witzel, S. A., 217  
Wolcott, G. N., 1167, 1187v  
Wolf, D. E., 1577, 1595, 1603i  
Wolf, F. A., 2792d  
Wolfe, H. R., 431t, 2444  
Wolfe, J. W., 1331w  
Wolfenbarger, D. O., 933  
Wolgamot, I. H., 3640  
Wood, B. J., 3822  
Wood, C. A., 1405, 1482, 2380  
Wood, D. J., 3088n  
Wood, H. E., 461, 1560, 1571  
Wood, R. K. S., 2661, 2662  
Woodbridge, C. G., 312, 2427  
Woodbury, N. H., 2536d  
Woodcock, D., 2536w, 3278,  
3475  
Woodhead, C. E., 1346, 1462  
Woodman, R. M., 2187  
Woodside, A. M., 3423  
Woodward, J. C., 3484  
Woodward, R. S., 2407  
Woodward, F. N., 1864  
Work, P., 688t, 3644  
Worley, D. P., 1563  
Worms, P., 3957  
Worswick, G. D., 2335  
Wort, D. J., 2250  
Wressell, H. B., 2668  
Wright, A. H., 947, 2889  
Wright, D. W., 2731, 3594  
(Wright, J.), 2164  
Wright, J. A., 897  
Wright, J. E., 109w  
Wright, L. E., 1742  
Wrigley, P. I., 3151  
Wurceldorf-Warden, J. E., 869  
Wurgler, W., 668

Wyatt, O. E. P., 884  
Wyckoff, R. W. G., 786  
Wye College Department of  
Hop Research, 4153q  
Wylie, W. D., 558  
Wyman, D., 2887u  
Wynd, F. L., 99, 3361, 3588,  
3863  
Wyoming Agricultural Experi-  
ment Station, 4150

Xabregas, J. L., 833, 1187a

Yamamoto, W., 1011g, 1983  
Yamane, G., 43  
Yamasaki, M., 2078, 2081  
Yarwood, C. E., 816, 2623,  
2709c  
Yashiroda, K., 927y  
Yasuda, S., 1891  
Yates, F., 8  
Yazicioglu, T., 3920  
Yeates, J. S., 2436  
Yeh, T. Y., 4053  
Yeomans, A. H., 422  
Yepes, E., 690  
Yerington, A. P., 3941  
Yoder, J. B., 1669  
Yoneyama, K., 182  
Yoshida, I., 2943  
Yoshida, T., 1399m  
Yosioka, K., 1866  
Yosioka, S., 1881  
Yothers, M. A., 2528, 2536x  
Young, D. W., 508  
Young, H. C., 372  
Young, H. C., Jr., 1481, 3382  
Young, H. E., 2070, 2071, 2072  
Young, H. Y., 2066, 3158  
Young, R. A., 1479  
Young, R. E., 2282, 3952  
Young, T. W., 952, 953

Younkin, S. G., 584  
Yowell, H. L., 1554  
Yuan, T. L., 1128  
Yuen, Q. H., 501  
Yust, H. R., 1987, 3939

Zaar, É. I., 3870  
Zabala, S., 1976  
Zäch, C., 1527  
Zacharius, R. M., 3229j  
Zaharova, E. I., 285, 1414  
Zahnley, J. W., 1565, 1566  
Zambettakis, C., 2973  
Zambrá, G. L., 2138  
Zanon, K. W., 3271  
Zanzibar Department of Agri-  
culture, 2188  
Zaumeyer, W. J., 592, 593  
Žavoronkov, P. A., 3241  
Ždanov, L. A., 2811  
Ždanova, L. P., 46, 50, 109x,  
1275  
Zelenskii, M. A., 1347  
(Zeller, A.), 1213  
Zeller, S. M., 334  
Zentmyer, G. A., 1615  
Ziegler, H., 44  
Zimmerman, J. F., 3674y  
Zimmerman, P. W., 1603 l,  
2855, 3184, 3189, 3294,  
3551, 3886  
Zimmerman, W. E., 2542  
Zink, F. W., 2607  
Zobrist, L., 1526  
Zohary, M., 1245, 1878  
Zorin, F. M., 937  
Zubkus, L. P., 582  
Zubriski, J. C., 2339  
Zuckerman, A., 836e  
Žukova, G., 3685  
Žurin, A. B., 1420  
Zweede, A. K., 2375r  
van Zwet, A. J., 3990  
van Zwieten, P., 4080m



## SUBJECT INDEX

### Horticultural Abstracts, Vol. XXI

- Abacá (*Musa textilis*)—see Hemp, Manila
- Abbreviations for scientific publications, 3147
- Abstracting, references in, 3146
- Acacia—see also Wattle—  
*farnesiana*, essential oil from, 801  
 seed germination, 3899  
 spp., edible pods from, 1182
- Acalymma vittata*, 687g
- Acanthopsyche junodi*, 2173
- Acanthoscelides obtectus*—see Bean weevil
- Acanthospermum hispidum* control, 510d
- Acenaphthene for inducing polyploidy, 575
- Acer—  
*platanoides* manuring, 906  
*saccharum*—see Sugar maple
- Aceraceae, floral disk in the, 2887j
- Aceria—  
*essigi*, 1496  
*vaccinii*, 2475
- Achatina fulica*, 1020, 2978
- Achras zapota*, 4079
- Acids, vegetable, 3229i
- Acrobasis caryae*, 388
- Acrocomia* oil palm, 4104
- Acrolepia assectella*, 1530
- Acromyrmex octospinosus*, 2011
- Acrosternum hilare*, 3423
- Acta Agriculturae Scandinavica*, a new periodical, 3143
- Acta Agronomica*, a new periodical, 3142
- Actinidia sinensis*—see Chinese gooseberry
- Actinomyces* spp. antagonistic to pathogenic fungi, 2660, 2661
- Admont—see Alpine
- Advances in Agronomy*, a new periodical, 2191
- Advances in Chemistry Series*, 2189
- Aeroplane—see also Helicopter—  
 for fertilizer application, 2536a, 4135  
 for herbicide application, 454, 1603 l, 1603w  
 for pest control, 369, 421, 423, 424, 2528, 2536a
- Aerosol—see Sprays, insecticides
- Africa—  
 East, Agric. Forestry Res. Organization, 2154, 3967, 4115  
 French—  
   flora of tropical, 2005  
   oil palm growing, 4080 l  
 North—  
   condiment plants of, 3764  
   pecan growing, 296  
 South—see South Africa  
 West, *Strophanthus* spp. of, 2795, 2796, 2798
- Alfalfa dammara* seeds, metabolism of, 3831o
- Agave—  
*fourcroydes*, henequen, 3775  
*sisalana*—see Sisal
- Ageratum*—  
*conyzoides* mosaic, 1877  
*houstonianum* for growth substance tests, 3185
- Aglaia odorata*, 1937
- Agricultural—  
 advisory services in European countries, 1244g  
 Improvement Coun., England and Wales, Rep. 1950, 4103  
 meteorology, 11-14, 2192  
 Outlook Charts 1951, 4144  
*periodicals of the British Isles, 1681-1900, and their location*, 2193a  
 statistics—  
   in British Columbia, 3102, 4153b  
   in England 1945/47, 3123  
   in Great Britain 1946/47, 3124  
   in U.S.A., 2193f, 4145  
   Yearbook of, 1948 and 1949, 2155, 2156
- Agriculture—see also Horticulture—  
 in Angola, 1187c  
 in El Salvador, 1016  
 in Fiji, 2004  
 in Indonesia, 1015  
 in Philippines, 2006  
 Specialist Conf., Aust., Rep. 1949, 2144  
 tropical, 1015
- Agrilus sinuatus*—see Pear tree borer
- Agriotes* spp.—see Wireworm
- Agrobacterium tumefaciens*—see Crown gall
- Agropyron repens*—see Couch grass
- Agrostis tenuis*, 1946
- Agrotis segetum*, 2588
- Air—  
 mineral content of, 1254  
 pollution by gases, 1613  
 purification in storage, 232
- Albizia moluccana* as a shade tree, 2103
- Alcohol—  
 allyl, for weed control, 1228  
 benzyl, ovicide penetration aided by, 1524, 2521
- Alchornea cordifolia*, tannins from, 1854
- Aldolase activity and zinc deficiency, 3208
- Aleurites*—see also Tung—  
*moluccana* as a tung rootstock, 1002  
*triloba* for oil, windbreaks and shade, 3137  
*trisperma*, 1009
- Aleurocanthus woglumi*, 981, 2937, 3936
- Aleurodes proletella*, 2591
- Aleurothrixus howardi*, 1975
- Aleyrodes spiraeoides*, 751
- Alfalfa mosaic, 1765
- Algae—  
 growth substance effect on, 2829  
 vitamin C content of marine, 835

- Algeria—*see also* Africa, North—fruit varieties, 1399f
- Alginates from brown marine algae, 1864
- Alkaloids—*see also particular plants and compounds*—cactus, 2832n
- Alligator weed (*Alternanthera* spp.) control, 462
- Allium* spp.—*see also* Onion, etc.—109a, 687i, 1673
- Almond—  
bud-failure disorder, 431s  
cetoniid injury to, 1484  
cover crops, 178  
growing in Morocco, 2403  
moth, 2536f  
pollination, 165  
rootstocks, 2403  
scab (*Fusicladium carpophilum*), 1459  
varieties, Jordanolo, 431s  
varieties in Portugal, 3351  
yields, 2403
- Aloe* spp.—  
as medicinal plants, 1817  
fertility induced in, 3839  
as fibre plants, 4098
- Alpine—  
Agriculture, A.R. of Austrian Inst., Admont 1948, 1213  
plants, manuals on, 3095, 3099, 4081
- Alternanthera* spp. control, 462
- Alternaria*—  
*citri*, 2968c  
*solani*—*see also* Potato blight and Tomato blight—405, 406, 673, 1713, 2658, 2697, 3665, 3704
- Altica sylvia*, 366
- Altitude effect on plant development, 28
- Aluminium foil mulch, 2582
- Alyssum*, dispersal types of, 1878
- Amani, history of research at, 3966
- Amaranthus*—  
spp. control, 2152, 2565  
*tricolor* damping-off, 2010
- Amarylhidaceous plants cultivated in tropical Africa, 2887i
- Ambrosia* spp.—*see* Ragweed
- America, South, cacao growing in, 1196
- Amestategia glabrata*, 1540t
- Amino acid(s)—  
analysis, 2283y  
oxidative deamination, 1331t  
in potatoes, 4118
- Ammi majus*, xanthotoxin and imperatorin from, 1818
- Ammonia, anhydrous, as a nitrogen fertilizer, 1246, 2689, 2909, 3228m
- Amorphophallus rivieri*, tissue culture of, 2261
- Ampelidaceae in Portugal, 3332
- Ampelocissus* spp. in West Africa, 2389
- Amphorophora rubi*, 3388
- Amylopectin in passion fruit, 2958
- Amylose determination, 587
- Anabasine, tests for, 1799
- Anasa tristis*, 2609
- Anastrepha* spp. control, 1986
- Anatomy of the dicotyledons, 1202
- Andes, tuber foods of the, 3673
- Anemone—  
flower-eating beetles on, 875  
nematodes in, 3838
- Anethum graveolens*, photoperiodic reaction of, 48-50
- Angola—  
agriculture in, 1187c  
Central Agricultural Station, 3965  
coffee growing, 3993, 3994  
flora of, 1013, 4080i  
fruit growing, 126  
palm oils from, 1187a
- Anhydase in plants, carbonic, 3229 l
- Annales Bogorieneses*, a new periodical, 4151
- Annamocarya* spp. in Indo-China, 3088g
- Annona cherimola*—*see* Cherimoya
- Annonaceae, anthracnose of, 3084
- Annual Reports—*see also* Reports and Year-books—
- Admont—*see below*, Bundesanst.
- Amsterdam—*see below*, Indies and Tropical Australia—  
Canned Fruit Bd 1949/50, 4153a  
C.S.I.R.O. 1949/50, 2150  
Dried Fruit Control Bd 1949/50, 4105
- Balsgård Fruit Breeding Stat. 1949, 1212
- Bermuda Dep. Agric. 1949, 3101
- Boskoop Soc. Trial Garden 1949, 1236
- British Columbia—  
agric. Statistics 1949 and 1948, 3102, 4153b  
Climate 1949, 1244c  
Dep. Agric. 1950, 4109
- British Guiana—  
Dep. Agric. 1947 and 1949, 2146, 3103  
Dir. Agric. Administr. Rep. 1947, 1948 and 1949, 2145
- Bundesanst.—  
alpine Landwirtschaft., Admont 1948, 1213  
f. Pflanzenbau u. Samenprüfung, Vienna 1949, 1242
- Bureau of Plant Industry, Soils, agric. Engng 1950, 4110
- Canada—  
Cttee Food Pres. 1950, 4153m  
Dep. Agric. Fruit and Veget. Res. Cttee 1949, 2158  
Minist. Agric. 1949/50, 2148  
nat. Res. Coun. 1949/50 and 1950/51, 1244f, 4153 l
- Canterbury, N.Z., agric. Coll. 1949/50, 2193b
- Caribbean Commn 1948, 4153c
- Cawthron Inst., N.Z. 1949/50, 1214
- Centre Rech. Ligue pomol. Déf. Fruit belge 1949/50, 1217
- Ceylon—*see below*, Rubber
- Chagres—*see below*, Tobacco
- Coffee Res. Stat. Lyamungu, Moshi 1948, 3136
- Colonial—  
Devel. Corp. 1950, 3105  
Res. Coun. 1949/50, 3106
- Colorado agric. Exp. Stat. 1948/49, 1220

Annual Reports (*continued*)—

Connecticut—*see below*, Storrs  
 Cornell agric. Exp. Stat. 1949/50, 4113  
 Dominion of Canada—*see above*, Canada  
 East African Agric. Forestry Res. Organ.  
 1949 and 1950, 2154, 4115  
 East Malling Res. Stat. 1950, 3108  
 Edinburgh and East of Scotland Coll. Agric.  
 1949/50, 4153f  
 Éire Minist. Agric. 1949/50, 3144a  
 Fiji Dep. Agric. 1949, 4153h  
 Florida agric. Exp. Stat. 1948/49, 1222  
 Friesdorf hort. Res. Stat., nr. Godesberg  
 1950 (?), 4116  
 Georgia Exp. Stat. 1949/50, 3109  
 Groningen agric. Res. Stat. Soil Sci. Inst.  
 T.N.O. 1949, 4118  
 Gulval exp. Stat. 1949/50, 2159  
 Hillsborough agric. Res. Inst., N. Ireland  
 1949/50, 1244a  
 Hong Kong Senior agric. Officer 1949/50,  
 3111  
 Illinois agric. Exp. Stat.—*see also* Reports—  
 1947/48, 4120  
 India, Southern—*see below*, Tea  
 Indian—  
 agric. Res. Inst. 1947/48, 3112  
 Coffee Bd 1948/49, 3113  
 Coun. agric. Res. 1949/50, 4122  
 Tea Ass. sci. Dep., Tocklai 1949, 1224  
 Indies, roy. Inst. for the, Amsterdam 1949,  
 2141  
 Indonesia—  
 A.V.R.O.S. gen. Res. Stat. 1941/47 and  
 1948, 4106  
 C.P.V. Exp. Stat. 1949, 4114  
 Inst. Encouragement Rech. sci. Ind. Agric.,  
 Brussels [I.R.S.I.A.] 1950, 4124  
 Inst. nat. belge du Houblon 1942/44 and  
 1948, 1225  
 Inst. nat. pour l'Étude agronomique du  
 Congo belge [I.N.E.A.C.] 1949, 4123  
 Iowa agric. Exp. Stat. 1948/49, 1227  
 Jamaica Dep. Agric. 1948/49, 2164  
 John Innes hort. Instn 1950, 3115  
 Kentucky agric. Exp. Stat. 1949, 1228  
 Kentville, N.S., Fruit Prod. Lab. and Storage  
 Invest. 1949/50, 2158  
 Kenya—  
 Dep. Agric. 1948, 1229  
 Senior agric. Officer (Pyrethrum) 1950,  
 4125  
 "Lange Ossekampen" central manurial  
 trial ground 1947 and 1948, 2165, 3119  
 Lausanne—*see below*, Stations  
 Leeward Islands Dir. Agric. 1948, 3120  
 Long Ashton agric. hort. Res. Stat. 1950,  
 4128  
 Low Temp. Invest. Storage Lab., Ottawa  
 1949, 2158  
 Macaulay Inst. Soil Res. 1949/50, 2167  
 Madras Presidency agric. Stats 1947/48, 3121  
 Maine agric. Exp. Stat. 1949/50, 2168  
 Malaya Dep. Agric. 1949, 4129

Annual Reports (*continued*)—

Massachusetts agric. Exp. Stat. 1949/50, 4131  
 Mauritius—*see below*, Sugarcane  
 Michigan agric. Exp. Stat. 1949/50, 4153k  
 Missouri agric. Exp. Stat. 1948/49, 4133  
 Molo hort. Stat. Kenya 1950, 3118  
 Morden, Manitoba, Fruit and Veget. Prod.  
 Lab. 1949/50, 2158  
 Mushroom Res. Stat. Yaxley, Peterborough  
 1950, 3125  
 Naaldwijk Res. Stat. Fruit Veg. Cult. under  
 Glass 1950, 4134  
 Nebraska agric. Exp. Stat. 1949, 3127  
 New Jersey agric. Exp. Stat. 1948/49 and  
 1949/50, 1231, 4135  
 New York St. agric. Exp. Stat. 1948, 1949  
 and 1950, 1232, 1233, 4136  
 New Zealand—  
 Dep. Agric., Hort. Div. 1949/50, 1234  
 D.S.I.R. 1949/50, 1221  
 Nigeria agric. Dep. 1949/50, 4137  
 Northern Rhodesia Dep. Agric. 1949, 3144b  
 Nova Scotia Fruit Growers' Ass. 1949 and  
 1950, 1235, 3129  
 Nyasaland Dep. Agric. 1948 Pt II and 1950,  
 2176, 3130  
 Oregon agric. Exp. Stat. 1949/50, 3131  
 Overseas Food Corp. Sci. Dep. 1948/49, 3132  
 Pennsylvania agric. Exp. Stat. 1949/50, 2177  
 Philippines Dep. Agric. natural Resources  
 1948/9, 4138  
 Pretoria agric. Res. Inst. 1949/50, 2152  
 Queensland—  
 Acclimatisation Soc. 1949/50, 3144c  
 Dep. Agric. Stock 1949/50, 2179  
 Rothamsted exp. Stat. 1949, 1950 and 1949  
 appendix, 1237, 4139, 4140  
 Rubber Res. Bd, Ceylon 1949, 1218  
 São Paulo agric. Inst. 1950, 4141  
 Sarawak Dep. Agric. 1949, 3134  
 Singapore bot. Gardens Dep. 1949, 1244h  
 Sisal—  
 Exp. Stat. [Mlingano] Tanganyika 1948,  
 1240  
 Res. Stat., Thika, Kenya 1950, 4126  
 South Africa—  
 Dep. Agric. 1949/50, 2185  
 Div. Bot. Plant Path. 1949/50, 2153  
 Div. Ent. 1949/50, 2173  
 Div. Hort. 1949/50, 2142  
 Southern Rhodesia—  
 Botanist, Plant Pathologist 1949, 2161  
 Entomologist 1949, 2172  
 Horticulturist 1949, 2160  
 Tobacco Officer 1949, 2147  
 Stations fédérales d'essais vitic., arboric.,  
 Lausanne et Pully 1949, 2166  
 Stellenbosch-Elsenburg Coll. Agric. 1949/50,  
 2170  
 Storrs agric. Exp. Stat. Connecticut 1949/50,  
 4153d  
 Sugarcane—  
 Res. Scheme, Madras 1947/48, 1223  
 Res. Stat. Mauritius 1949, 3122



Annual Reports (*continued*)—

Summerland, B.C., Fruit and Veg. Prod. Lab. 1949/50, 2158

Swaziland Dep. Native Land Settlement 1949, 3144d

Swedish—

Acad. Agric., hort. Coll. 1949, 2193d  
agric. Res. Coun., Storage Cttee 1945/46-1948/49, 2143

Tanganyika Dep. Agric. 1948, 2182

Tea sci. Sect. United Planters' Ass., Southern India 1949/50, 3138

Tobacco—

exp. Stat. Chagres, Chile 1947/48, 3104  
Res. Stat. Trelawney 1949, 4142

Tropical Prod. Dep., Amsterdam 1948, 1949 and 1950, 1211, 4104

Uganda Dep. Agric. 1947/48 Part II and 1948/49, 1241, 3137

United States Dep. Agric., agric. Statistics 1947, 2193f

Virginia agric. Exp. Stat. 1949/50, 4147

Wageningen Inst. hort. Tech. 1944/48 and 1949, 1226

Washington agric. Exp. Stat., Pullman 1946/47, 1947/48 and 1948/49, 4153o

Wattle Res. Inst., Pietermaritzburg 1950, 4148

West African Cacao Res. Inst. Tafo 1948/49, 3140

West of Scotland agric. Coll. 1949/50, 3141

Western Province Fruit Res. Stat. Stellenbosch 1949/50, 2174

Wisconsin agric. Exp. Stat. 1947/48 and 1948/49, 3144e

Wye College, Kent, Dep. Hop Res. 1950, 4153q

Wyoming agric. Exp. Stat. 1948/49, 4150

Zanzibar Dep. Agric. 1949, 2188

Ant(s)—

and biological pest control, 3946  
control, 361, 362, 1019, 2011, 2890, 2936, 2976, 2977, 3443

leaf cutting (*Atta* spp.), 2111b, 2977, 3443

*Antestia* bug on coffee, 1241, 3137

Anthemis cuttings, 3833

Anthochlor pigments, 2839, 2850

Anthocyanin—

in apple fruit, 204  
filters, effect on plant development, 41  
in *Hibiscus rosa-sinensis*, 1950g  
in iris, 880  
in *Ligustrum japonicum*, 1950h

Anthonomus—

*pomorum*—see Apple blossom weevil  
*rubi*, 1889

*Anthores leuconotus*, 1043

Antibiotics—see also individual compounds and sources—

biochemistry of, 3453  
for the control of plant diseases, 399, 401, 626, 1220, 1650, 2419, 2658-2662, 3126, 3393, 3450, 3456-3458, 4111, 4119  
cytological effects of, 2512

Antibiotics (*continued*)—

from higher plants, 401, 3454, 3457  
from lichens, 3492f  
reviews of work on, 398-400, 3451, 3452, 3455

uptake by plants, 2628, 2658

for wood protection in trees, 1512  
XG, 1650

*Antidesma bunius* layering, 1009

Antimycin A, an antibiotic, 1513

*Antirrhinum*—see Snapdragon

*Antonina indica*, 1949

*Anuraphis communis*, 3419

*Aphelechioidea*—

*fragariae*, 1480, 2473, 2474, 3838  
*ritzema-bosi*, 862, 1480, 1886, 1887

Aphid(s)—see also under scientific names and host plants—

bacterial diseases spread by, 1725n  
control, 363, 558, 745, 1482, 1483, 1517, 1638, 1656, 1657, 1761, 2486, 2587, 2591, 2625, 2626, 2780, 3421, 3492v, 3593, 3757, 3849, 3852, 3885, 4119, 4120, 4135

on ferns, 3877

traps for, 1540r

as virus vectors, 364, 688 l, 688m, 838, 969, 971-973, 1187b, 1482, 1647, 1759-1761, 1974, 1975, 2015, 2056, 2153, 2722, 2926-2929, 3388, 3621, 3865

woolly—see also Apple, woolly aphid—on sugar cane, 4063

*Aphis*—

*citricidus*, 969, 971-973, 1974, 1975, 2153, 2926, 2928

*fabae*—see Bean aphid

*frangulae*, 1685

*gossypii*, 1638, 2926, 2927

*pomi*, 2527

*spiraecola*, 1187b

*Apium virus* I, 1631

Apple—see also *Malus* and *Pyrus*—

*Amestategia glabrata* on, 1540t  
aphid—see also below, woolly—2527, 3419

bagworm (*Oiketicus kirbyi*), 1504

biennial bearing, 201, 3188, 3292

biochemistry—see also below, composition—  
a manual on, 1206

bitter-pit, 309, 2425, 3363

bitter rot (*Glomerella cingulata*), 2150, 2454

black rot (*Physalospora obtusa*), 2455, 3401

blossom—see also below, flower—

blight (*Sclerotinia laxa*), 3394

thinning by sprays, 199-201, 1221, 1390, 2348, 3291, 3292, 3294

*Tropinota hirta* a pest of, 371

weevil (*Anthonomus pomorum*), 2166, 4116

boron deficiency, 309, 311, 1438, 2161, 2425, 3363

boxes—see also below, packing—1395

breakage of limbs, 1353

breeding, 124, 125, 3241

Brooks spot, 4149

broom virus, 3381

brown heart, 1440

Apple (*continued*)—  
 brown rot, 2456  
 bud opening, growth substances delay—*see*  
*also below*, flowering—3292  
 bush trees, 214  
 canker, 3394  
 chimaeras, diploid-tetraploid, 134, 145  
 chromosome number of, 2283f  
 cider—*see also* Cider—  
 pest control on, 1436, 2498  
 soil management, 1381  
 codling moth (*Carpocapsa pomonella*)—*see*  
*also* Codling moth—  
 control, 383, 384, 1489, 1501, 2499-2501  
 infestation in tree top, 3433  
 warning service, 383, 384  
 colchicine treatment of, 78  
 collar-rot (*Phytophthora cactorum*), 1461  
 colour—*see below*, fruit  
 composition—*see below*, fruit, juice and leaf  
 consumption in U.S.A., 2365  
 core-flush, 1368  
 corky core—*see above*, boron deficiency  
 cover crops, 177, 1381, 1382  
 crab—*see also below*, rootstocks—  
 embryo culture of, 152  
 utilization of, 135, 234g  
 cropping in England, 214  
 crown gall, 1457  
 cuttings—*see also below*, root—1361, 1365  
 delayed foliation, 2160, 3118  
 ermine moth control, 424  
 espalier, 214  
 fire blight, 4149  
 flea weevil (*Rhynchaenus pallicornis*), 3425,  
 3426  
 flower(s)—*see also above*, blossom—  
 abnormal, 3275  
 bud differentiation, 2301  
 nectar secretion, 1376  
 percentage to develop into fruit, 4116  
 structure, 145  
 flowering—*see also above*, bud—growth  
 substances delay, 247, 3293  
 forcing of dessert, 1341  
 frost—  
 damage, 318, 323, 2343, 3370  
 protection of blossom, 322, 4149  
 resistance—*see also below*, rootstock,  
 hardy—124, 3127, 3187, 3188, 3241  
 fruit—  
 amino acids of, 2338  
 colour—  
 factors affecting, 3282  
 sprays to improve, 202, 204, 2342  
 composition—*see also above*, biochemistry  
*and below*, juice—2148, 2338, 3282, 3304  
 drop, spraying or dusting to retard, 201,  
 203, 1391, 2351-2355, 2358, 3296-3298  
 malic acid metabolism in, 3303  
 nitrogen metabolism in, 2150  
 organic acids of the, 3304  
 respiration—*see also below*, storage—  
 2304, 2372, 3302

Apple—fruit (*continued*)—  
 size, wax sprays increase, 3263  
 swelling of, 2302  
 thinning by growth substances, 198, 200,  
 201, 2302, 2346, 2347, 2349  
 grading, 220, 221, 3299, 4110  
 grafting, 2317  
 grass cover for, 1381, 1382, 1399d  
 growing—*see also below*, varieties—  
 in Canada, 2157, 3233  
 economics of, 2118  
 in England, 234j, 2375k  
 in Japan, 2301  
 in Northern Ireland, 115  
 in Southern Rhodesia, 2160, 2161  
 in Sweden, 111  
 in U.S.A., 3234  
 growth substance plus vitamin treatment,  
 3187, 3188  
 harvesting, 2375b  
 "Henderson spot", 3385  
 herbicide injury to, 1612  
 hybrid seedlings, Mičurin's and Lysenko's  
 observations on, 125  
 insect population, estimation of, 2483  
 internal bark necrosis, 4149  
 internal cork—*see above*, boron deficiency  
 juice composition, 2363, 3305, 3312c  
 "juvenile" forms, 3274  
 leaf—  
 area, 1354  
 burn, 1448  
 chlorophyll content, 3161  
 composition, 192, 193, 1386, 2148  
 frost damage to, 3370  
 miner (*Lyonetia clerkella*), 382  
 miner, spotted tentiform (*Lithocolletis*  
*crataegella*), 3439  
 peroxidase, 2305  
 structure, rootstock affects, 2323  
 loading ramp—*see also below*, packing—  
 2277  
 maggot (*Rhagoletis pomonella*), 3429  
 magnesium deficiency, 176, 313, 2334  
 manganese deficiency, 1439  
 manuring—*see also below*, nutrition—189,  
 1227, 1386, 1387, 2168, 3279  
 maturity, growth substances affect—*see also*  
*below*, storage quality—202, 2357  
 maturity tests, 2363, 4119  
 mealy bug, comstock (*Pseudococcus com-*  
*stocki*), 3445  
 mildew (*Podosphaera leucotricha*), 2166,  
 2457, 2458  
 mouse control, 3234  
 mulching, 309, 2332  
 nitrogen manuring, 189, 1387, 3279  
 nursery, weed control in, 3535  
 nutrition—*see also above*, manuring—192  
 oriental fruit moth control, 1489  
 packing, 221-223, 1395, 1396, 2277, 2364,  
 3300  
 pest—*see also above*, insect—control, 1436,  
 1523, 2498, 2524

- Apple (*continued*)—  
 phenological data for, 11, 13, 4116  
*Phytophthora boehmeriae* on, 1459  
 pith moth (*Blastodacna putripennella*), 389  
 planting, 2320  
 plum curculio control, 1233, 1489  
 pollen storage, 1373  
 pollen tube development, 166, 2327  
 pollination, 166, 1374, 3234, 3247, 3271  
 polyploid—*see also below*, tetraploid—3183  
 pomace silage, 234q  
 potash deficiency, 431d, 2334, 2375c  
 products, a manual on, 1206  
*Proxenus rionegrensis* on, 3436  
 pruning, 2160, 2360, 3288, 3312h  
 pulp, sherbet from, 1220  
 rabbit repellents on, 2510  
 red banded leaf roller, 1233  
 red spider—*see also* Red spider and scientific names—2478-2480, 2522, 2536k, 3411-3413, 4135  
 rejuvenation of tree, 2177  
 ring-spot virus, 330  
 ripe-spot (*Neofabraea malicorticis*), 1462  
 ripening—*see above*, maturity  
 root(s)—  
   cuttings, 3265  
   growing varieties on own—*see also below*,  
     scion rooting—1361, 1365  
   tissues, 2300  
 rootstock(s)—*see also below*, stem builders—  
   A2, 158  
   A587, 1227  
   Antonowka, 3257  
   in Australia, 2150  
   Crab C, 2315  
   crab, French, 1214, 3117  
   crab, Virginia, 1228, 3256  
   *Crataegus mexicana*, 162  
   Double Vigour—*see above*, crab, French  
   dwarfing, in Russia, 1364-1367  
   East Malling, 1362, 2150, 2160, 2166,  
     3118, 3135, 3253, 3255  
   Epp's Seedling, 1214  
   flooding injury to, 3255  
   hardy—*see also above*, frost resistance—  
     159, 1363, 1364, 1366  
   Hibernal, 1228, 3256  
   intermediate—*see below*, stem builders  
   in Kenya, 3118  
   leaf structure affected by, 2323  
   *Malus*—  
     *baccata*, 1363  
     *prunifolia*, 3257  
     *toringoides*, 2322  
   Merton, 2179  
   in New Zealand, 1221  
   own roots superior to, 1361, 1365  
   quince, 110  
   -scion relationships, 2322  
 seedling—  
   in Germany, 3252, 3257, 3268, 3269  
   hardy, 159, 1363  
   raising of, 3312s
- Apple—rootstock(s) (*continued*)—  
 for spindle bushes, 3254  
 spray injury affected by, 2324  
 storage quality affected by, 2166  
 in Sweden, 158  
 in Virginia, 4149  
 woolly aphid control and resistance, 1481  
 yield from seed, 160  
 rust, 1233, 3129, 3394  
 sawfly (*Hoplocampa testudinea*), 2505, 2522,  
 3442  
 scab—  
   biology of fungus, 3400  
   control—  
     by glyoxalidine sprays, 3395, 3399  
     by ground treatment, 348  
     by low volume spraying, 1526, 1527, 3480  
     by Phygon, 1465, 3129  
     by various fungicides, 347, 349, 408, 410,  
       1226, 1232, 1233, 1464, 2460-2462,  
       2518, 2536k, 3395-3398, 3400  
   a historical note on, 2459  
   pathogenicity of, 2536m, 2536s  
   resistance, 2536s  
   spore(s)—  
     dispersal, 3397  
     germination, inhibition of, 2526  
     longevity of, 1463  
   warnings, 2460  
 scald, 2158  
 scion-rooting, 1371  
 scorch, fungicids cause, 2535  
 seed—  
   germination, 2314  
   hormone from, 3278  
   rootstock yield from, 160  
   sowing, rate of, 3268  
   storage, 1356  
   stratification, 1357  
   testing, 3250  
 seedlings—*see also above*, rootstock—  
   on own roots, 2322  
   survival affected by treatment, 2320  
 soil—  
   exhaustion, 1221, 1383, 3286  
   management—*see also above*, cover crops  
     and grass—309, 1381, 1383, 1399e, 2331,  
     2332  
   spray residue in, 176, 177, 3492m  
   water level, 1384  
 sooty blotch, 409  
 spacing, 1227  
 spindle bush, 213, 3254, 4116  
 sports, 4110  
 spray—  
   injury to, 1540g, 2166, 2324, 2535, 3483,  
     3486  
   residue, 1534, 1539, 2530, 2531, 3481  
   spraying, economics of, 2529  
   standard trees, half-, 1393  
   stem builders, 161, 3127, 3135, 3256, 3257  
   storage—  
     air purification in, 232  
     cold, 2368



# SUBJECT INDEX

- Apple—storage (*continued*)—  
condensed water damage in, 1540b  
Cox's Orange, 231  
dessert varieties for, 1397  
dips, 2150, 2370  
disorders, physiological—*see also above*,  
bitter pit, 1368, 1440, 2158  
in England, 234d  
gas, 229, 230, 1398  
Granny Smith, 1368, 3301  
Gravenstein, 228  
internal atmosphere of fruit in, 2370  
metabolism in, 1216, 2303, 3303  
pests, 2488  
quality—  
growth substance effect on, 1391, 2158  
manuring affects, 1386  
rootstocks affect, 2166  
respiration in, 1398, 2372, 3302  
a review, 227  
rots, 231, 1440, 2150, 2424, 2454, 2456  
in Sweden, 231  
wraps, 221, 1467, 3301  
sun scald, 324, 3375  
tetraploid—*see also above*, polyploid—134,  
145, 4110  
thinning—*see above*, blossom and fruit  
tit and wasp damage to, 397  
training—*see above*, espalier and spindle bush  
transplanting seedlings, 3269  
tree borers, 365  
variability trials, 2199  
varieties—  
Conventina, 2293  
Cox's Orange, 231, 2351  
De Lestre, 1344  
Granny Smith, 1368, 3301  
for grassed orchards, 1399d  
Gravenstein, 228  
hardy, 124, 3241  
McIntosh, 189, 2303, 3279  
Mičurin, 129  
in Minnesota, 2292  
Monroe, 1345  
Morella, 132  
in New South Wales, 116  
in New Zealand, 1346  
in Russia, 129-131, 133, 1342  
Sunset, 2352  
Suvorovec, 133  
in Sweden, 3242  
woolly aphid-susceptible, 3420  
Wrixparent, 134  
vitamin C content, 4133  
water-core, 309  
witches' broom virus, 1451  
woolly aphid control, 1481, 2485, 3420  
in world economy, 3312d  
yields, 214  
zinc deficiency, 315, 1256, 2426, 2427
- Apricot—  
blossom thinning, 3131, 3291  
blossoming, growth substances to delay, 1221  
breeding, 138, 2294
- Apricot (*continued*)—  
brown rot, 407, 1476  
cuttings, 1361  
distribution, geographical, 2286  
drying, 3235, 3309  
frameworking, 2319  
freckle, 2174  
frost resistance, 2294  
growing in Tunisia, 3235  
irrigation, 184  
Kamyšin, 136  
Mediterranean fruit fly on, 1492, 1493  
pandemis moth on, 2502  
potassium deficiency, 2335  
pruning, 2361  
roots, growing varieties on own, 1361  
rootstocks, 1362, 1363, 2286, 2325, 3262  
seed storage, 1356  
spray residue, 1535, 1537  
storage of fresh, 2174  
varieties, 136-140  
as a virus carrier, 4146  
wild, 136
- Apyrase in potato tubers, 3693
- Aquilegia skinneri*, polyploid, 3834
- Aralia cordata*, udo salad plant, 680
- Archips argyrospila*, 2938, 3943
- Areca palm, utilization of, 2108
- Arends, a biography of, 4082
- Argentina—  
*Capsicum* spp. of, 3674k  
citrus rootstocks in, 1958, 1959  
codling moth in, 383, 384  
delayed foliation of fruit trees, 3372  
Ebenaceae in, 3918  
*Ephedra* spp. in, 927m, 927n  
fruit—  
growing, 1333  
variety collection, 127, 128  
ornamental plants of, 913, 916, 1871, 1893,  
1936, 1937, 3853, 3918  
potato growing, 3724d
- Argyresthia ephippella*, 431 1
- Argyroplote leucotreta*, 2173
- Argyrotaenia citrana*, 2941
- Armillaria—  
*matsutake*, an edible fungus, 1660  
*mellea*, 2060, 2452, 4123
- Armyworm, fall (*Laphygma frugiperda*), 534,  
687a
- Aromatic plants of India, 3763
- Arracacia xanthorrhiza*, a root vegetable,  
681
- Artemisia absinthium* for testing growth sub-  
stances, 2242
- Artichoke—  
globe, curly dwarf virus, 682  
Jerusalem—  
carbohydrates of, 2707  
crown gall of, 109q
- Artocarpus*—  
*heterophyllus*, cultivation of, 2109  
*integrifolia*, 4078
- Artiona catoxantha*, 2996

# SUBJECT INDEX

- Arum lily (*Zantedeschia aethiopica*)—  
   basal rot, 2859  
   diseases, 1897  
   soilless culture, 3228q  
 Arum respiration, 3868  
 Ascochyta—  
   *caricae*, 4021  
   *dahliae*, 1888  
   *pisi*, 1649, 1650  
   spot of broad bean, 3674d  
   spp. on tobacco, 2161  
 Ascophyllum nodosum, alginates from, 1864  
 Ascorbic acid—see also Vitamin C and individual plants under vitamin C—  
   accumulation, 2222  
   estimation, 2283v  
   pea growth response to, 2221  
   and respiration, 3175  
   synthesis during seed germination, 1642  
 Aseptic culture of higher plants, 1310, 2258, 2259  
 Asparagus—  
   beetles, 2596  
   breeding, 2595  
   growing in South Africa, 1621  
   root system, 1622  
   rust (*Puccinia asparagi*), 1459  
   spacing, 2595  
   volatile constituents of, 3674i  
   weed control, 1231, 1579, 1580, 1585, 3548, 3549, 4135  
 Aspergillus niger—  
   antibiotic control of, 3457  
   for estimating minor elements in soils and plants, 1256, 2206, 2283p  
   on sansevieria, 3023  
 Aspidiotus—  
   *destructor rigidus*, 3992  
   *forbesi*, 394  
   *hederae*, 1508  
   *perniciosus*—see San José scale  
 Aster—  
   damping-off, 927s  
   diseases, 927b  
   grafting, 1875  
   photoperiodic reaction, 849  
   tetraploid, 3834  
   yellows virus, 2245, 2655, 2841, 3916t  
 Astrocaryum spp., oil from, 1081  
 Atmospheric pollution, 613  
 Atropa belladonna, 796, 4116  
 Atia cephalotes, 2011  
 Attar of roses, 2801  
 Auchincruive—see West of Scotland agric. Coll.  
 Aulacorthum pseudosolani, 1776  
 Aurea forms, chlorophyll destruction in leaves of, 109n  
 Aureomycin uptake by plants, 2628  
 Auricula, edged varieties of, 927t  
 Aurigena unicolor, 2490  
 Australia—see also individual States and areas—  
   Canned Fruit Bd, A.R. 1949/50, 4153a  
   Australia (continued)—  
     C.S.I.R.O., A.R. 1949/50, 2150  
     Dried Fruit Control Bd, A.R. 1949/50, 4105  
   Australian bushland, a book on the, 3089  
   Austria—  
     Colorado beetle in, 2738  
     horticulture in, 3228p  
     plant breeding in, 3229c  
     potato growing, 768f, 768g  
     seed testing in, 1242  
     vegetable variety trials, 511, 513  
   Auxin—see Growth substances  
   Avena—  
     coleoptile, electrical and elongation phenomena, 3228x  
     photoperiodic reaction, 48  
   Avocado—  
     anobiid beetle on, 2892  
     anthracnose (*Colletotrichum gloeosporioides*), 932  
     *Copturomimus perseae* on, 934  
     diseases, 1193  
     frost damage to, 2889  
     fruit composition, 3920  
     growing in Trinidad, 1952  
     irrigation, 2179  
     oil, 3920  
     propagation, 931  
     red mite (*Paratetranychus yotheresi*), 933  
     reviews and bibliographies on, 930, 3091  
     stem-end rot (*Diplodia natalensis*), 932  
   Azalea—  
     cuttings, 907  
     *Glomerella cingulata* on, 4110  
     growing—  
       in Belgium, 2880  
       in Italy, 2880  
     peat a medium for, 1227  
   Bacillus—  
     *aroideae*, 1822, 1897  
     *cereus*, 783  
     *coli*, 1458  
     *mesentericus*, 1614  
     *polymyxa*, 1614  
     *subtilis*, 1614  
   Bacteria antagonistic to fungus diseases of lettuce, 2659-2662  
   Bacterial—  
     canker—see individual crops  
     diseases, aphids spread, 1725n  
     fasciation, 839  
     flora of the rhizosphere, 596  
   Bactericides—see individual compounds and sources  
   Bacterium—  
     *aroideae*, 2859  
     *carotovorum*, 1787  
     *phytophthorum*, 738, 829  
     *solanacearum*, 2725  
     *tabacum*, 2776, 2777, 3753  
     *tumefaciens*—see Crown gall  
     a tumour-inducing, 1932

# SUBJECT INDEX

Bagasse ash, potash content of, 1128  
 Balsgård Fruit Breeding Stat. A.R. 1949, 1212  
 Balsam, Peru (*Myroxylon pereira*), 3766  
 Bamboo—  
   cellulose from, 834  
   dwarf (*Sasa* spp.), 1866  
   fibres, 1867  
   powder-post beetle (*Dinoderus minutus*), 3774  
   propagation, 3831e  
   sooty stripe disease (*Papularia arundinis*), 1870k  
   species for tea gardens, 1865  
*Bambusa vulgaris*, 2830  
 Banana—see also *Musa* and Plantain—  
   “black tip” disease, 3101  
   borer (*Cosmopolites sordidus*), 2981  
   breeding, 2164  
   *Cercospora* leaf spot, 1023, 2979  
   classification, 2111c  
   *Colaspis hypochlora* on, 3103  
   composition of fruit, 3971  
   destruction of old plantations, growth substances for, 3972  
   diseases, physiological, 1022  
   dried, 3088 l  
   growing—  
     in British Honduras, 3105  
     in French West Africa, 1022  
     in Jamaica, 2979  
*Lasiodiplodia theobromae* on, 2973  
   manuring, 2164  
*Marasmius stenophyllus* on, 1022  
   nectar secretion, 1376  
   nematodes in, 1022  
   panama disease (*Fusarium oxysporum cubense*), 1079, 2012, 2164  
*Rhizoctonia bataticola* on, 1022  
   rhizosphere, flora of, 2012  
   ripening, artificial, 3971  
   selection, 4122  
   skin composition of, 2982  
   soil, 3103  
   spacing, 2164  
*Sphaceloma* sp. on, 2980  
   storage dips, 3263  
   varieties in Trinidad, 4080n  
 Barbados—  
   cherry propagation, 1009  
   sugar cane growing, 3052  
*Baris* spp., control of, 551  
 Barium in soils and plants, 2257  
*Basella*—  
   damping off in, 2010  
   *rubra* cuttings, 1720  
 Batatais forestry garden, Brazil, 3896  
*Batrachedra mathesoni*, 3038  
*Bauhinia esculenta*, an oil plant, 1855  
 Bean—  
   anthracnose (*Colletotrichum lindemuthianum*), 2622  
   aphid, black (*Aphis fabae*), 687n, 838, 1655, 1657, 2586, 2625, 2708 l, 2722  
   asparagus (*Vigna sesquipedalis*), 577  
   auxin translocation in, 2235

Bean (*continued*)—  
   bacterial blight (*Xanthomonas phaseoli*), 2621, 4111  
   a bacterium on, 688n  
   beetle—see also below, weevil—  
     *Bruchus rufimanus*, 3599, 3600  
     Mexican (*Epilachna varivestis*), 1232, 1513, 4136  
   “black root”, 2619  
   boron—  
     application to, 586  
     tolerance, 525  
   broad—  
     *Ascochyta* spot of, 3674d  
     bean beetle on, 3599, 3600  
     frost damage to flower, 520  
     fruiting habit, 591  
     mosaic, 1648  
     radicle, vitamin C content of, 1331q  
     reduction-oxidation potential of juice, 1331 l  
     root cells, development of, 1262  
     seed composition, 588, 1281  
     shoot development of, 2615  
     *Tropaeolum* ringspot on, 838  
     water balance affected by growth substances, 66  
   bumble bee injury to flowers, 2627  
   composition—see also above, broad, seed composition—542, 3204, 3589  
   copper and iron content, 3204  
   cotyledons, plants raised from, 64  
   cuttings of French, 72  
   dehydrase activity in plastids, 32  
*Diabrotica* spp. on, 3584  
   double (*Phaseolus lunatus macrocarpus*), 1641  
   embryo viability, 582  
   frost—  
     protection, 3369  
     resistance of, 579  
   golden (*Fortunella hindsii*), 2003b  
   green vegetable bug (*Nezara viridula*) on, 599  
   growing—  
     in Canada, 571  
     in England, 3583  
     in Hawaii, 3674n  
   growth substance—see also above, auxin—  
     effect on, 66, 440, 480, 580, 589, 1294, 2237, 2246-2248, 2250, 2252, 3190, 3191  
   halo blight (*Pseudomonas phaseolicola*), 2168  
   harvesting, time of, 3589  
   herbicide injury to, 1612  
   hoeing versus no hoeing, 12  
   kidney, 577  
   leaf—  
     abscission, 2237, 2238  
     rooting of, 1260  
   lima—  
     breeding, 688r  
     downy mildew, 4135  
     *Elsinoe phaseoli* on, 1459  
     nematodes, 3601  
     red spider, 3597  
     *Rhizoctonia* root rot of, 2708m



- Bean—lima (*continued*)—  
 seed fly, 3596  
 sowing rate, 583  
 sterile culture of, 1310  
 weed control—*see also below*, weed control—1579, 3552  
 manganese—  
 deficiency, 3588  
 toxicity, 3207, 4118  
 manuring, 2616, 4135  
 mineral deficiency, 1305  
 mosaic, 2245, 2619, 3592  
 nematodes, 1771  
 pest control, 1653, 3583  
 photoperiodic reaction of runner, 45  
 pollination, 3115  
 red light effect on, 41  
 red node virus disease, 592, 4111  
 rhizosphere, bacterial flora of, 596  
 rust (*Uromyces fabae*), 1459, 2623, 2709c  
 salt tolerance, 527  
*Sclerotinia sclerotiorum* on, 529  
 seed—  
 composition, 588, 1281  
 fly (*Hylemyia cilicrura*), 3596  
 germination, 40  
 growth inhibitor from kidney, 2236  
 protein, a crystalline, 2708c  
 soaking injury to, 581  
 testing, 2613  
 soil—  
 heating for French, 2159  
 moisture optimum, 1280  
 spacing, 1645  
 storage, 598  
 storage, frozen pack, 687b  
 tobacco-mosaic, 2709c  
 tonka (*Coumarouna* spp.), 1843, 1844  
 varieties, 576, 578, 579, 3096, 3584, 3674 l  
 velvet, a cover crop for sugar cane, 1147  
 virus 2, 2863, 3674h  
 vitamin—  
 A content, 687b, 3204  
 C content, 687b, 2250, 3204  
 weed control—*see also above*, lima—480, 483, 2168  
 weevil (*Bruchus obtectus*)—*see also above*, beetle—597, 598, 1658, 1659, 2584  
 windbreaks for, 12  
 yellow stipple virus, 593  
 zinc deficiency of, 2618  
 Bechuanaland, *Bauhinia esculenta* oil from, 1855  
 Bee(s)—  
 anaesthesia of, 1378  
 bumble, 2627  
 the fanning of, 3273  
 flower constancy of, 1377  
 foraging methods of, 848  
 herbicide injury to, 172, 448  
 injury to peach, 3440  
 insecticide damage to, 171, 172, 1379, 1380, 4113  
 -keeping, 234 l, 1191  
 Bee(s) (*continued*)—  
 pollination by, 169, 170, 1377  
 venom plus colchicine treatment, growth stimulated by, 80  
 Beet—  
 globe, 2647  
 seed, a germination inhibitor from, 75  
 sodium a nutrient for, 1232  
 yellow-net virus, 688m  
 Beetroot—  
 boron—  
 deficiency, 3616  
 tolerance, 525  
 breeding, 2644  
 dormancy, 618  
 herbicide injury to, 1612'  
 manuring, 526, 2151  
 nematodes, 2646  
 a new virus on, 619  
 photoperiodic response of, 2645  
 seed—  
 production, 624, 3617  
 and seedlings, growth substance treatment of, 65, 539  
 thinning, 2647, 2648  
 vernalization, 2645  
 weed control, 3550  
 Begonia—  
 mineral deficiency, 1876  
 photoperiodic response, 3869  
 Belgian Congo—  
 cacao growing, 2983  
 flora of, 4092  
 I.N.E.A.C.\* A.R. 1949, 4123  
 pineapple growing, 2064  
 rubber growing, 4025  
 sisal growing, 3831 l  
 tea growing, 2094  
 vine growing, 3331  
 Belgian Fruit League, A.R. 1949/50, 1217  
 Belgian nat. Hop Inst., A.R. 1942/44, 1948, 1225  
 Belgium—  
 agricultural machinery in, 3226  
 azalea growing, 2880  
 hop growing, 813, 1225  
 I.R.S.I.A.† Rep. 1950, 4124  
 mushroom growing, 600  
 pea growing, 3674s  
 pteridophytes of, 2128  
 soil and vegetation maps of, 2162  
 tomato growing, 659  
 vine growing, 2418h, 3331  
 Benzoin, a resin, 1838  
 Berberis aristata, a medicinal plant, 1819  
 Bergamot oil, 1870g, 3802  
 Bermuda—  
 Dep. Agric., A.R. 1949, 3101  
 grass—*see also Cynodon* spp.—  
 control, 488, 501, 1575, 1576, 3122  
 \* Inst. national pour l'Étude agronomique du Congo belge.  
 † Inst. pour l'Encouragement de la Recherche scientifique dans l'Industrie et l'Agriculture.

- Bermuda—grass (*continued*)—  
for lawns, 1941-1948, 2140
- Berry—*see also* Small fruit and separate berry crops—  
boxes, wax treatment to control moulds, 300m, 1234  
bushes, uprooting of, 1319
- Beta chiliensis*, 17251
- Biennial bearing—  
in apple, 201, 3188, 3292  
in coffee, 3110
- Bindweed control, 433, 1565, 3521
- Biochemistry, a manual on, 1189
- Biological—  
control—*see also* Pest control, Disease control, and Weed control, biological—  
nat. Inst. for, Portici, Italy, 3459  
publications, bibliography of Canadian, 1244i
- Bird(s)—  
control, 396  
damage to soft fruit and peas, 2509  
for pest control, 1509, 1780, 1781
- Blackberry—  
aphids, 364  
control, 506, 507, 3522, 3530  
growing—  
in Canada, 1434b  
in Florida, 237  
mite (*Aceria essigi*), 1496  
purple blotch (*Rhabdospora ramealis*), 2463  
rubus stunt, 1452  
seed germination, 239  
variety classification and identification, 238, 2376
- Blackcurrant—*see also* Currant—  
blister rust (*Cronartium ribicola*)—*see below*, varieties  
breeding, 124  
certification, 235  
composition, 3316  
cuttings, 1404  
diseases, 3492y  
growing—  
in England, 3313  
in Tasmania, 3314  
leaf spot (*Pseudopeziza ribis*), 1469  
manuring, 3315, 3316  
pests, 3492y  
pollination, 243, 4109  
varieties, rust resistant, 124, 2148, 4109  
vitamin C content, 3316  
yeasts on, 2341
- Blastodacna putripennella*, 389
- Blepharospira cambivora*, 3352
- Blossom thinning—*see* Thinning
- Bluebell (*Scilla non-scripta*) distribution, 27
- Blueberry—  
bud mite (*Aceria vaccinii*), 2475  
cranberry and cherry fruitworms on, 4135  
flea beetle (*Altica sylvia*) on, 366  
growing in U.S.A., 300f, 1401, 3357c, 3357d  
growth, determinate, 1403  
a high bush-low bush hybrid, 4149
- Blueberry (*continued*)—  
investigations at Maine agric. Exp. Stat., 2168  
iron deficiency, 3361  
magnesium deficiency, 314  
nutrition, 1233  
pest control, 3435  
propagation of high bush, 2377  
rooting media for, 4149  
seedlings, manuring of, 2378  
stunt, 2438, 4135  
variety—  
Keweenaw, 3357d  
Murphy and Wolcott, 1402  
weed control, 3496
- Boehmeria* spp.—*see* Ramie
- Bolivia, cinchona growing, 2988
- Book reviews—*see* Reviews
- Boron—  
availability, 88, 89  
deficiency—  
in apple, 309, 311, 1438, 2161, 2425, 3363  
in beetroot, 3616  
in celery, 1631  
in hop, 1214, 3785  
in nursery soils, 2423  
in peach, 312  
in pome fruits, 2424  
in potato, 3691, 3692  
in raspberry, 1214  
in rose, 896, 3890  
in tomato, 88, 1707  
in vegetables, 544  
in vine, 1417  
function of, 89, 90  
nutrition—  
of bean, 586  
of orange, 2917  
for pollen germination, 2327  
a review on, 1306  
tolerance of vegetable crops, 525  
toxicity, 1007, 2916  
and vitamin C content, 1707
- Boskoop Soc. Trial Garden, Yearbook and A.R. 1949 and 1950, 1236, 4108
- Botanical—  
activities at Harvard, 2193c  
garden(s)—  
Molotov, at Nikita, 4  
Singapore, 1244h
- Botany, a manual on, 1204
- Botryodiplodia theobromae*, 3140
- Botryosphaeria ribis*, 3130
- Botrytis*—  
*alii*, 2636  
*cinerea*—  
antibiotics control, 2658-2661, 3450, 3457  
on cabbage, 1625  
on dahlia, 1888  
on lettuce, 2658-2661, 3450  
on tulip, 889  
on vine, 2471, 2472  
*elliptica*, 925  
sp. on *Ribes aureum*, 927h

- Botrytis* (continued)—  
*tulipae*, 872  
 Bougainvillea, 908, 927w  
 Boxthorn control, 3528  
 Boxwood composition, nematodes affect, 909  
 Boysenberry, *Verticillium* wilt, 1468  
*Bracharia humidicola*, 1946  
*Brachycaudus*—  
*helichryzi*, 3421  
 spp., control of, 1517  
*Brassica*—  
 anthracnose leafspot (*Colletotrichum* spp.)  
 of, 548  
*campestris*, hormone from, 556  
*crenata*, photoperiodic response, 2226  
 disease and pest control, 550, 1626  
*junceae*, 2811  
*nigra* virus, 6881  
 polyploid, 538, 3183  
 seed production, 554  
 seedlings, identification of, 2597  
 taxonomy of the genus, 2598  
 virus diseases, 688s  
*Brassolis sophorae*, 3103  
 Brazil—  
 coffee—  
 exports from, 2037  
 growing, 1049, 2038, 2042, 2044-2048,  
 3995, 3999, 4004, 4006  
 flora of, 2283g  
 fruit and vegetable imports from Portugal,  
 3239  
 hoes in, 106  
 potato growing, 695  
 rose growing, 2869  
 sugar cane growing, 1102  
 vine growing, 3329  
 Breeding—see also Genetics and individual  
 crops—  
 in Austria, 3229c  
 in Canada, 301  
 hardy perennials, 4082  
 lectures on plant, 2122  
 legislation on, 3229c  
 methods of plant, 3  
 Scottish Soc. Res. in Plant, Rep. 1950, 1239  
 vernalization an aid to, 2573  
*Bremia lactucae*, 38, 2657  
*Brevicoryne brassicae*, 1725n, 2708q  
 Brinjal—see Eggplant  
 British—  
 Columbia—  
 agricultural statistics, 3102, 4153b  
 climate of, 1244c, 3135  
 Dep. Agric., A.R. 1950, 4109  
 irrigation in, 183  
 land clearing in, 1331a  
 Commonwealth—see also Commonwealth—  
 sci. official Conf., Rep. 1949, 2144  
 Guiana—  
 Dep. Agric., A.R. 1947 and 1949, 2146,  
 3103  
 Dir. Agric. Administr. Rep. 1947, 1948  
 and 1949, 2145  
 British—Guiana (continued)—  
 oil from *Licania* spp. in, 2825  
 sugar cane growing, 1144, 3053  
 Honduras—  
 banana growing, 3105  
 oleo-resin from slash pine, 2805  
 West Indies, sugar cane growing, 1096  
 Broccoli—see also Cauliflower—  
 composition, 542  
 molybdenum deficiency, 2600  
 variety trials, 2159  
 Brome, Cucamonga, a grass for cover crop-  
 ping, 3345  
 Bromeliaceae, a manual on, 1207  
*Bromus tectorum* control, 2565  
*Bruchus*—  
*obtectus*—see Bean weevil  
*rufimanus*, 3599, 3600  
 Brussels sprouts—  
 cabbage root fly control, 1627  
 seed production, 552  
*Bryobia praetiosa*, 3412  
*Bryophyllum calycinum*, leaf bud formation,  
 1881  
 Buckwheat, control of tartary, 510n  
 Budding—see also separate plants—  
 deciduous fruit trees, 3312s  
 growth substances an aid in, 2394  
 stone fruit, 1360  
 Surinam bending method, 2888  
 tropical and subtropical fruit trees, 2888  
*Buddleia* mosaic, 838  
 Bulb(s)—see also individual species—  
 diseases, 870, 873  
 pests, 870  
 planting—  
 angle of, 2159  
 machine for, 3867  
 storage, 874, 882, 907, 1216, 1226, 2159, 3876  
 virus diseases, 871  
 weed control in, 2159, 3131  
*Bulnesia sarmienti*, an essential oil plant, 3831a  
 Bumble bees for pollination, 1329  
 Buprestid beetle, green, 303  
 Bureau Plant Industry, Soils, agric. Engng,  
 A.R. 1950, 4110  
 Buttercup control, 510y  
*Butyrospermum*—see Shea-butter tree  
*Buxus sempervirens*, 4108  
*Bytiscus betulae*, 3472  
 Cabbage—  
 aphid, 1725n, 2708q  
*Botrytis cinerea* on, 1625  
 breeding, 512, 1232, 3674w  
 caterpillar control, 553  
*Cercospora brassicae* on, 1459  
 Chinese (*Brassica pekinensis* or *B. juncea*),  
 vitamin C content, 519  
 clubroot, 2708y  
 composition, 555  
 cut-worm control, 1623  
 dehydrase activity in plastids, 32



Cabbage (*continued*)—  
 diamond back moth (*Plutella maculipennis*), 553  
*Gloeosporium concentricum* on, 1459  
 growing—  
   in Louisiana, 687k  
   in Queensland, 1725k  
   in tropics, 1623  
 heat resistance, 540  
 hybrid seed production, 688d, 3674a, 3674p  
 leaf, chlorophyll content of, 3161  
 looper (*Trichoplusia ni*), 553  
 maggot—*see below*, root fly  
 manuring, 543, 2599  
 pest control, 688k, 3568  
 phomosis (*Phoma lingam*), 549  
 photoperiodic response, 3173  
 pollination, 688d, 3674a, 3674b  
 propagation, vegetative, 3674p  
 quality, manuring affects, 543  
 red, 537, 555  
 root fly (*Erioischia brassicae*), 1627, 1628, 3571, 3627  
 seed—  
   identification of, 537  
   pod weevil (*Ceutorhynchus* spp.), 552  
   production—*see also above*, hybrid—  
     546, 617, 688i, 1614, 1625  
 seedbeds, 687x  
 seedlings, growth substance treatment of, 539  
 soft rot, bacterial, 1614  
 soil moisture optimum, 1280  
 storage, 512, 555  
 vernalization, 37  
 viruses, relationships between, 547  
 vitamin C retention in storage, 555  
 weed control, 3551  
 weevil (*Baris* spp.), control, 551  
 white butterfly (*Pieris rapae*), 553, 1629, 1725m, 2708d  
 yellows, 1232  
 Cacao—*see also* Cocoa—  
 amelonado, 2986  
 a bibliography, 3973  
 “black pod” (*Phytophthora palmivora*), 3140  
 breeding, 3140  
 “brown pod” (*Botryodiplodia theobromae*), 3140  
 “brown rot”, 2027  
 budding, 1028  
 budwood, the raising of, 3977  
 capsid control, 3140  
 coccids of, 1187t  
*Coccotrypes pygmaeus* on, 4137  
 collar rot (*Marasmius semustus*), 2986  
 curing, 1033, 2023, 3973  
 cushion-gall disease, 3983  
 cuttings, 1026, 2018-2021, 2985, 3976, 4114  
 degeneration, hybridization causes, 2131  
 drying, 3984  
 fruit drop control, 2022  
 growing—  
   in Belgian Congo, 2983

Cacao—growing (*continued*)—  
   in Brazil, 1187t  
   in Colombia, 1024, 1032, 2016  
   cost of, 3975  
   in Costa Rica, 1025, 1033  
   in the Dominican Republic, 3974  
   in Ecuador, 2018  
   in the Gold Coast, 1029, 3980  
   in Indonesia, 2017, 3979  
   in Malaya, 2059, 2985-2987, 3105, 4129  
   in Nigeria, 1030, 4137  
   in Sarawak, 3134  
   in South America, 1196  
   in Trinidad, 1027, 1031, 2019  
   in Venezuela, 3975  
 history and geography of, 1196  
 husks, uses of, 2111o, 3985, 3986  
 iron deficiency, 3980  
*Lasiodiplodia theobromae* on, 2973  
 manuring, 3979  
 mealy bugs as virus vectors, 1031, 3140  
 mineral deficiency in, 1026  
*Monalonium* sp. on, 3975  
 nutrition, 3140  
 pollination, 3978, 4114  
 production and consumption, 2149  
 quality, 1033  
 Res. Inst., Tafo, West African, A.R. and  
   work at, 1219, 3140  
 seed, transport of, 2986  
 seedlings, establishment of, 3140  
 selection, 2985  
 soils, 2188, 3979  
 spacing, 4123, 4137  
 swollen shoot, 1029, 1030, 3140, 3981, 3982, 4139  
 transpiration, 4123  
 transplanting, 2018  
 virus—  
   “ A ” and “ B ”, 1031  
   Offa Igbo, Nigerian, 2024  
   vectors, 1031, 2024-2026, 3140  
 witches’ broom (*Marasmius perniciosus*)  
   1032, 2027  
 zinc deficiency in, 3980  
 Cactus—  
   alkaloids, 2832n  
   morphology, 890  
   spineless, prickly pear parasite as pest on, 1569  
 Caffeine—  
   determination, 1187f, 2832b  
   from tea, 4080c  
*Cajanus cajan* as a green manure plant, 1058, 1187m  
*Caladium* spp., control of, 493  
 Calceolaria—  
   flower drop, 847  
   mineral deficiency, 1876  
 Calcium—*see also* Liming—  
   deficiency in potato, 2716  
   estimation, 2207-2209  
   requirements of olive, 1388

- Calendula*—  
   flower-eating beetles on, 875  
   nutrition, 3836  
   rust (*Puccinia distincta*), 850  
*Calepitrimerus vitis*, 380  
*California*—  
   cherry growing, 2287  
   citrus growing, 936  
   dried-fruit industry and frozen-food production, 2373  
   fruit growing, 1399j  
   plum growing, 2375i  
   tomato growing, 656  
   vine growing, 258, 2418g  
*Caliroa limacina*, 393  
*Calla*—  
   bacterial basal rot, 2859  
   rhizome rot (*Phytophthora erythroseptica*) of white, 876  
*Callicarpa*, taxonomy of, 1938  
*Callistephus chinensis*, 849  
*Callosobruchus maculatus*, 598  
*Calluna*, uses of, 3901  
*Calonectria theae*, 1178  
*Calycanthus* spp., descriptions of, 2887q  
 Cambridge School Agric. hort. Res. Stat., Rep. 1922/49, 2187  
*Camellia*—  
   culture, 1222  
   flower blight (*Sclerotinia camelliae*), 911, 2881  
   flowers, fungi on, 927v  
   leaf cuttings, 910  
   spray injury to, 1931  
 Camera for microphotographs, a miniature, 3229b  
*Camphor* (*Ocimum* spp.)—see also *Cinnamomum*—oil, 802, 1825, 3802, 3808, 3809  
 Canada—see also *individual areas and exp. Stats*—  
   apple growing, 3233  
   bean growing, 571  
   Central exp. Farm, Ottawa—  
     Div. Field Husbandry, Soils, agric. Engng, Rep. 1936/48, 1215  
     Div. Hort., Rep. 1934/38, 1216  
   climate of, 2157  
   Dep. Agric. Fruit and Veget. Res. Cttee, A.R. 1949, 2158  
   evapotranspiration at Toronto, 109s  
   flower growing, 2157, 2836, 2837  
   fruit—  
     breeding, 124  
     growing, 2157  
   fungicides in, 1230  
   Minist. Agric., A.R. 1949/50, 2148  
   nat. Res. Coun., A.R. and Review 1949/50, 1950, and 1950/51, 1244f, 2193e, 4153 l  
   plant breeding in, 301  
   plum growing, 2290  
   potato growing, 768o, 768p, 1728  
   rose growing, 1921  
   small fruit growing, 1400  
   Canada (*continued*)—  
     strawberry growing, 1408  
     tobacco growing, 1790, 1791, 1800  
     vegetable growing, 1607, 2157  
     weeds of, 459, 2570c  
*Canadian*—  
   biological publications, bibliography of, 1244i  
   Cttee Food Pres., A.R. 1950, 4153m  
   Soc. Hort., Proc. of Western, 6th meeting, 2186  
*Canaigre* (*Rumex hymenosepalus*), tannin from, 830, 2150, 4110  
*Canarium* spp. as vegetables, 2572  
*Canavalia ensiformis*, colchicine treatment of, 1295  
*Canavanine*, a growth inhibitor, 109w  
 Canned Fruit Bd, Australia, A.R. 1949/50, 4153a  
 Canning—see *separate crops*  
 Cantaloupe—see also *Cucurbits*—  
   manuring, 1227  
   mosaic, 2606, 2607  
   nematode in, 3602  
   pollination, 2604  
   powdery mildew, 1636  
   weed control, 1579  
 Canterbury, N.Z. agric. Coll., A.R. 1949/50, 2193b  
*Cantharellus cinnabarinus*, carotenoids of, 1661  
 Cape spitzkool, 2170  
 Caper growing in Italy, 3767  
*Caperonia castaneaefolia* control, 443  
 Capital value of fruit trees, assessment of, 122  
*Capitophorus fragaeifolii*—see also *Strawberry aphid*—3388  
*Capnodis tenebrionis*, 163, 367, 2490, 2536h, 2536i, 3422  
*Capsicum* spp.—see also *Pepper*, red—in Argentina and Paraguay, 3674k  
 Carambola grafting, 1009  
 Caraway (*Carum carvi*), 809  
 Carbon—  
   dioxide, radioactive, 3058  
   monoxide treatment of seed, 1606  
   radioactive, 85, 1298, 1603d, 2254, 2255, 2283r, 3822  
 Carbonic anhydrase in green plants, 1277  
*Cardaria pubescens* control, 1566  
*Caribbean*—  
   citrus growing, 2968g  
   Commn A.R. 1948, 4153c  
   tobacco trade, 795a  
   vegetable trade, 687h  
*Carica papaya*—see *Papaw*  
*Carnation*—  
   anther smut (*Ustilago violacea*), 2847  
   cuttings, 1880, 3100, 3841-3843  
   diseases, soil-borne, 3841, 3842, 3845  
   double-flowered, 846  
   Fusarium wilt, 2845, 2846, 3844  
   irrigation, 3840  
   mosaic, 2842-2844, 2887a, 4111  
   pest control, 3849  
   red spider, 3837, 3846, 3849

- Carnation (*continued*)—  
 root rot, 1220, 3845  
 rust (*Uromyces caryophyllinus*), 2845  
 soilless culture, 3846  
 storage of cut, 843  
 studies in Massachusetts, 4131  
*Verticillium* wilt, 1716, 2845
- Carob (*Ceratonia siliqua*) growing in California, 2804
- Carotene—*see also individual plants under vitamin A*—  
 concentrate from rose hips, 902  
 determination, 20, 24, 1187e, 2283j  
 effect on plant growth, 3176  
 magnesium deficiency causes loss of, 92
- Carotenoids—  
 a chromatographical study of, 1187p  
 staining, 3156
- Carpocapsa pomonella*—*see* Codling moth
- Carpophilus dimidiatus* and *C. hemipterus*, 2000
- Carrot—  
 aphid control, 2584  
 bolting disease, a virus causes, 2649  
 boron tolerance, 525  
 carotenoids—*see also below, vitamin A*—  
 distribution of, 3619  
 chromogenesis in stored, 3620  
 chromoplasts, 2231  
 composition, 542, 3204  
 copper and iron content, 3204  
 crown gall of, 109q  
 dehydrase activity in plastids, 32  
 dormancy, growth substances prolong, 1676  
 fly (*Psila rosae*), 1680, 2651, 3674g  
 leaf water content, 58  
 manuring, 2151, 3618, 4135  
 phomopsis disease, 2650  
 photoperiodic response, 3173  
 seed—  
 germination, 621  
 production, 617, 624, 625, 3617, 4110  
 size related to quality, 512  
 storage, 626, 1676, 3620  
 thinning, 2647, 2648  
 tissue culture, 1263, 2262, 2263, 3212, 3213  
 varieties, orange-fleshed, 620  
 vernalization, 37  
 vitamin—  
 A content, 622, 623, 3618  
 C content, 623, 3204  
 weed control, 476, 479, 481, 1586, 2561, 3519, 4119  
 yellows, 1233
- Carya* spp. in Indo-China, 3088g
- Cashew—  
 apple products, 4076  
 nut shelling, 4129
- Casimiroa edulis*, 1009, 1183
- Cassava (*Manihot esculenta*)—  
 manuring, 2188  
 virus diseases of, 2154
- Cassia—  
*fistula*, flower structure, 3847
- Cassia (*continued*)—  
*occidentalis*, growth-promoting and growth-inhibiting substances in, 62  
*strobiliacea* as a shade tree, 4006
- Castanea—*see* Chestnut
- Castanopsis*, frost damage to, 1428
- Castor bean—  
 oil, 3132, 3812  
 variety, a new, 3813  
 weed control, 1583
- Catalase activity, 31, 1282
- Catantops joycei*, 1860
- Cattleya labiata*—*see also* Orchid—1916, 2868
- Cauliflower—*see also* Broccoli—  
 bacterial spot (*Pseudomonas maculicola*), 3572  
 cabbage root fly control, 1628  
*Cercospora brassicae* on, 1459  
 composition, 3573, 3575, 4134  
 crates, 1619  
*Gloeosporium concentricum* on, 1459  
 growing in Queensland, 1725k  
 herbicide injury to, 1612  
 manuring, 3576  
 molybdenum deficiency in, 545, 1611, 1624, 2161, 2600, 3573-3575  
 mosaic, 1725g  
 weed control, 3552  
 whiptail—*see above, molybdenum deficiency*
- Cawthron Inst., N.Z., A.R. 1949/50, 1214
- Celastrus angulata*, an insecticidal plant, 818
- Celeriac heart rot, *Lygus* sp. causes, 3577
- Celery—  
 aphid and cutworm control, 558  
 brown spot (*Cephalosporium* sp.), 3578  
 calico virus, 3659  
*Cercospora* blight, 1222  
*Colladonus* spp. on, 3674t  
 diseases, 1631  
*Fusarium* yellows, 2708t  
 harvesting, packing and marketing, 560  
 manuring, 1630, 2151  
 Pascal, 2601  
 seed development, 557  
 sodium a fertilizer for, 2581  
 spacing, 1630, 2601  
 spray residue on, 559  
 tarnished plant bug (*Lygus oblineatus*) control, 559  
 transplanting, 2269  
 varieties, 2708t  
 weed control, 476, 479, 3519
- Cell division in the root-tip, 2220
- Cellulase from tobacco, 2760
- Cellulose from bamboo, 834
- Centaurea* spp.—  
 control, 1570, 2547  
 ornamental, 3853
- Cephaelis acuminata*, a medicinal plant, 3795
- Cephaleuros* spp. on plants, 2031, 2120
- Cephalosporium apii*, 3578
- Cephus compressus*, 1506
- Ceratitis capitata*—*see* Fruit fly, Mediterranean
- Ceratonia siliqua*, 2804



- Ceratostomella*—  
*finbriata*, 646, 3015  
*paradoxa*, 1156, 3051  
*ulmi*, 2698
- Ceratovacuna lanigera*, 4063
- Cercospora*—  
*beticola*, 17251  
 blight of celery, 1222  
*citrullina*, 567  
*kopkei*, 3071  
*malayensis*, 1721  
*musae*, 1023, 2979  
*nicotianae*, 2161  
*vaginae*, 1156
- Cercosporaella*—  
*brassicae*, 1459  
*theae*, 1178
- Ceroplastes destructor*, 986, 1992
- Ceutorhynchus assimilis*, 552
- Ceylon—  
 coconut growing, 1035  
 rubber growing, 2068, 2069, 2111p  
 Rubber Res. Bd, A.R. 1949, 1218
- Chaetocnema concinna*, 2589
- Chafer beetles, 1540p
- Chagres—see Tobacco exp. Stat.
- Chalaropsis* sp. on coffee, 3088d
- Chamaecyparis* cuttings, 2879
- Charcoal added to sand culture medium, 1315
- Chelating agents in soilless culture, 1312
- Chenopodium*—  
*amaranticolor*, 1276  
*quinoa* growing in Peru, 1722
- Cherimoya* (*Annona cherimola*)—see also Anno-  
 naceae—  
 fruit, morphology and anatomy of, 4077  
 packing, 2009  
 rootstocks, 1009
- Cherry—  
 anthracnose—see below, leaf spot  
 bacterial canker, 303  
 bird, a long-fruited, 3900  
 bitter rot (*Gloeosporium* sp.), 352  
 blossom blight (*Sclerotinia* spp.), 351, 1476  
 blossom moth (*Argyresthia ephippella*), 4311  
 breeding, 124, 234s, 1347  
 buckskin disease, 334  
 cuttings, 3266  
 forcing, 1341  
 frost resistance, 1347  
 fruit—  
   composition, 2336, 2375q  
   cracking, 2342  
   fly (*Rhagoletis* spp.), 1528, 2177, 2501,  
   2528, 3430, 3431  
   size—  
     estimation, 2200  
     wax sprays increase, 205, 3263  
   worm (*Grapholitha packardii*), 3438  
 growing—  
   in California, 2287  
   in Holland, 2295  
   in Norway, 3312t  
   in Portugal, 3237
- Cherry—growing (continued)—  
 in U.S.A., 3236  
 in U.S.S.R., 141  
 juice, 1407  
 leaf—  
   analysis, 192, 2339  
   curl—see also below, *Taphrina*—2339  
   spot (*Coccomyces hiemalis*), 350, 410, 2464  
   structure, spray materials affect, 146  
 little-cherry virus—see also below, X-disease,  
   334, 2440, 4110  
 manuring, 2336, 2375q  
 Moldavian, 141  
 mosaic, 1453  
 mulching, 2339  
 nematodes, 1479  
 nutrition, 192  
 pandemis moth on, 2502  
 “Pfeffinger” disease, 3383, 3384  
 phloem anatomy, 3312q  
 pollination, 2328  
 potassium deficiency, 2339  
 powdery mildew (*Podosphaera oxyacanthae*),  
   2464  
 pruning, 2375j  
 quality, 2336  
 rasp leaf virus, 1220  
 ring-spot virus, 2441, 2442, 3382  
 rootstock(s)—  
   capnodis resistant, 163  
   dwarfing, 1362  
   mahaleb, 331  
   mazzard, 331, 1479, 3135  
   seedling, 3252  
   virus-free, 1233  
   virus indexing of, 331  
 rugose mosaic, mild, 1453  
 sawfly leaf miner (*Profenusa canadensis*),  
   2506  
 seed—  
   germination of acid, 2314  
   storage, 1356  
 shot-hole disease, 2166  
 small bitter, a virus disease, 332  
 soil management, 2177  
 sour, 351, 1233  
 spray residue, 3492m  
 storage—  
   of fresh, 2366  
   frozen pack, 3310  
*Taphrina cerasi* on, 1459  
 triploid, 78  
 Utah Dixie rusty mottle virus, 333  
 varieties, 142, 2148, 2158, 2292, 3312t  
*Venturia cerasi* on, 1459  
 virus diseases, various, 334, 336, 2439  
 X-disease—see also above, little cherry—  
   2443, 2444, 3131  
 yellows, 2441, 2446, 3382  
 zinc deficiency, 315, 2426
- Chestnut—  
 blight (*Endothia parasitica*), 1470, 2404,  
   2465, 3352  
 breeding, 2404

- Chestnut (*continued*)—  
 Chinese (*Castanea mollissima*), 1428, 2405, 2406, 2569  
 frost damage, 1428  
 growing in France, 3352  
 harvesting, 2406  
 horned (*Trapa bicornis*), 2572  
 ink disease (*Blepharospora cambivora*), 3352  
 rootstocks, 2405  
 species, identification of, 2418f  
 storage, 2406  
 stumps, eradication of, 2569  
 weevils (*Curculio* spp.), 1486
- Chickweed (*Stellaria media*) control, 3539
- Chicle, polymers from, 2111q
- Chicory—  
 discoloration of forced, 3622  
 diseases and pests, 631  
 drying, 630  
 forcing, 629, 3622  
 mineral deficiency, 1684  
 root cuttings, 71  
*Sclerotinia sclerotiorum* on, 529
- Chile—  
 endemic potato varieties, 768c  
 seed potato growing, 3681
- Chilli—*see also* Pepper, red—growing in Italy, 2810
- Chilling requirements—*see* Delayed foliation
- Chimaeras, apple, 145
- Chimonanthus* spp., description of, 2887q
- China, insecticidal plants of, 818
- Chinese—  
 gooseberry (*Actinidia sinensis*), 240-242  
 vegetable foods, 2572
- Chionaspis salicis*, 905
- Chloride injury to vine, 2401
- Chlorine—  
 effect on tobacco, 1797  
 gas damage to fruit trees, 3377  
 as a nutrient, 91
- Chlorophyll—  
 biosynthesis of, 1270, 3228n  
 content of leaves, 3161, 3162  
 destruction in leaves of *aurea* forms, 109n  
 inhibition by tetroneic acid derivatives, 3194  
 photoreduction of silver nitrate by, 25  
 a review on, 2228
- Chlorophytum*, cytogeography of, 2887b
- Chloroplasts, copper and iron content of, 3160
- Chloroplasts, photochemical activity of, 2229
- Chlorosis—*see particular plants and* Iron deficiency
- Chondrilla juncea* control, 433, 440
- Chromaphis juglandicola*, 1483
- Chromoplasts, structure of, 2231
- Chrysanthemum—  
 aphid control, 3849, 3852  
 basal rot (*Pythium ultimum*) of cuttings, 1885  
 bud formation—*see below*, photoperiodic reaction  
 buds, histological structure of, 1882  
 carotene effect on, 3176  
*cinerariaefolium*—*see* Pyrethrum
- Chrysanthemum (*continued*)—  
 chromosome numbers, 3115  
 culture, 1201, 3848, 4091  
 cut, wax coating for, 3263  
 cuttings, 1881, 1885, 3843  
 flower initiation—*see below*, photoperiodic reaction  
*Fusarium* bud rot of, 3916g  
 gall midge (*Diarthronomyia chrysanthemi*), 864, 3851  
 mineral deficiency, 1876  
*morifolium*, 851, 1882  
 mosaic, 1884  
 nematodes, 862, 863, 1886, 1887  
 photoperiodic reaction, 48, 851-857, 1883  
 red spider control, 3849, 3852  
*rubellum*, 3848  
*Septoria obesa* on, 2849  
 stunt virus, 858-861, 2848, 4110  
 varieties, hardy, 19501  
 vernalization, 1883  
 virus diseases, 3850  
 warm water treatment of, 2576
- Chrysobothris femorata*, 365
- Chrysomphalus* spp., 1508, 3446
- Cider—*see also* Apple—yeast flora of, 3312b
- Cinchona—  
 caterpillar (*Cricula* sp.) control, 3990  
 damping-off, 2028, 2989  
 diseases, 3989  
 flowering habits, 3988  
 growing—  
   in Bolivia, 2988  
   in Guatemala, 3988  
   in Peru, 2988  
   in the Philippines, 3987  
 leaf epidermis of, 2972  
 nematodes in, 2990  
 pollination, 3988  
 polyploid, 3988  
 root and collar rot (*Phytophthora quininea*), 2988  
 seed germination, 4114.
- Cineraria—  
 growing in Argentina, 3853  
 leaf roll, 3854  
 mineral deficiency, 1876
- Cinnamomum*—  
 bark from Seychelles, 1840  
*camphora*, mycorrhiza of, 1248
- Cirsium arvense* control—*see also* Thistle—1564, 2546
- Cissus* spp. in West Africa, 2389
- Citron—  
 meiosis in, 2920  
 variety, Assads, 2896
- Citronella oil, 1826, 1831, 3804, 4104
- Citrus—*see also particular citrus fruits*—  
*Anastrepha* spp. on, 1986  
 ant control, 2936  
 bacterial—  
   cancrosis, 1985  
   necrosis, 1984  
 bagworm (*Oiketicus kirbyi*), control, 1504

Citrus (*continued*)—

- a bibliography on, 3953
- black fly (*Aleurocanthus woglumi*), 981, 2937, 3936
- black spot (*Phoma citricarpa*), 2153, 3933
- boron toxicity, 2916
- breeding, 937
- cachexia disease, 2932
- chromosome numbers, 2968i
- consumer preferences in U.S.A., 1011a
- cover crops, 2003f, 2905, 3926
- decline, slow—*see also below*, quick—976
- entomology, a manual on, 3090
- epiphytes, control of, 2164
- essential oil, 996, 3963e
- frost—
  - damage, 1994, 2889, 2968 l
  - protection, 2179
  - resistance, 937, 939, 947
- fruit—
  - colouring, 2371
  - composition—*see also below*, juice—1993
  - drop, control of, 2164, 4110
  - marketing, 2949, 3953
  - quality, factors affecting, 2902, 2910, 3948
  - respiration, 1996
  - rots, 979, 1222, 1997, 2153, 2951, 2968c, 3933, 3952
  - size, growth substances increase, 2921, 2922
  - storage, 3953
  - washing, 992
  - watery breakdown of, 1994
- Fuller rose beetle (*Pantomorus godmani*) on, 2942
- fumigation, 1987
- fungus diseases of, 1193
- grandis*, shaddock, 945, 946
- green mould (*Penicillium digitatum*), 2951, 3952
- “greening” disease, 2152
- growing—
  - in British Guiana, 2145
  - in California, 936
  - in the Caribbean, 2968g
  - in Italy, 1953, 2968a
  - in the Mediterranean countries, 1011f
  - in Morocco, 2893
  - in Russia, 1011d, 2968j
  - in Surinam, 4104
  - in trenches, 2968j
  - in U.S.A., 935, 936
- gummosis—
  - Phomopsis* [*Diaporthe*] *citri*, 2931
  - Phytophthora* spp., 978, 1978-1980, 2003a, 2003g, 2934
  - Rio Grande, 2933
- harvesting, 1993, 1994, 3953
- Homoeosoma electellum* on, 3945
- insecticides' effect on quality, 3948
- irrigation, 1961, 3930
- juice—
  - composition, 990, 2003d, 3948, 3949
  - industry in India, 3963h

Citrus—juice (*continued*)—

- paper test for, 2952
- leaf—
  - analysis, 2907, 2908, 2913, 2914, 2915, 3929
  - drop, 1962, 1968, 1971
  - roller (*Archips argyrospila*), 2938, 3943
- leprosis, 975
- lithium toxicity, 2918, 3963a
- mal secco (*Deuterophoma tracheiphila*), 1981, 1982
- Maleuterpes spinipes* on, 3944
- manuring, 2142, 2164, 2909-2911, 2913, 3926
- mealy bug, 1986, 1988, 2173, 2591, 2939
- melanose (*Phomopsis citri*)—*see also above*, gummosis—979, 1222
- minor element deficiency, 2916
- mite—*see below*, red spider
- Nadezhdiella cantori* control, 983
- nectar secretion, 1376
- nematodes, 943, 2968b, 3934
- nitrogen requirements, 2911
- nucellar selection—*see below*, polyembryony and seedlings, nucellar
- nutrition, 2912, 2914, 2915
- packing, 1994
- pest control, 980, 987, 2968d, 2968h, 3935, 3946
- phosphate deficiency, 3927
- Phytophthora*—*see also above*, gummosis—*boehmeriae* on, 1459
- planting, contour, 2903
- pollen germination, 2920
- polyembryony, 3925
- pruning, 3927, 3963i
- psorosis—*see below*, scaly bark
- quick decline—*see also below*, tristeza—2925-2927, 3931, 3963f
- red spider—*see also scientific names and* Red spider—1990, 2940, 3939-3941
- research—
  - in South Africa, 928
  - in U.S.A., 3921
- reticulata*, Khasi orange, 4122
- root—
  - distribution, 962
  - rot virus, 1974, 1976
- rootstock(s)—
  - in Argentina, 1958, 1959
  - cuttings, 2900
  - fruit quality influenced by, 2902
  - lemon, 2895, 2900
  - nematode resistant, 3934
  - raising of, 940
  - salt tolerance of, 2901
  - sour orange, 941, 2895
  - trifoliate orange, 2902
  - in Trinidad, 1956
- rust mite (*Phyllocoptruta oleivora*) control, 984, 988, 2946
- scale—
  - arrowhead (*Prontaspis yanonensis*), 2943
  - black (*Saissetia oleae*), 3937, 3938
  - circular purple (*Chrysomphalus ficus*), 2173



# SUBJECT INDEX

## Citrus—scale (*continued*)—

- control, biological, 984, 985, 2946, 2968e, 3937, 3938, 3942, 3963d
  - control, chemical, 986, 988, 2943, 2947
  - glover (*Lepidosaphes gloveri*), 2945
  - Leucaspis japonica*, 985
  - mussel (*Lepidosaphes pinnaeformis*), 2173
  - Parlatoria ziziphi*, 2944
  - purple (*Lepidosaphes beckii*), 988, 2946
  - red (*Aonidiella aurantii*), 1991, 2173, 2462, 2947, 2948, 3963d
  - white wax (*Ceroplastes destructor*), 986, 1992
  - scaly bark or psoriasis, 972, 975, 2183
  - seed oil, bitter principles of, 3963g
  - seedlings, nucellar, 939, 2152, 2894
  - seedlings, tip blight (*Phytophthora* sp.), 2935
  - soil(s)—
    - in Florida, 953
    - fungus flora of, 976, 977
    - management, 2142, 2905
  - sooty mould, 1983
  - stem-end rot, 1222, 1997
  - stem pitting, 971, 2152, 3932
  - sun burn, 951
  - suntara*, 1954
  - tetraploid, 945, 946, 2895
  - transpiration, 3928
  - tristeza disease—*see also above*, quick decline—969-972, 1975, 2928-2931, 3932
  - verrucosis (*Elsinoe fawcetti*), 2931
  - vitamin C content, insecticides affect, 3948
  - water requirements, 962, 1962
  - weed control, 486
  - xyloporosis, 1977
  - zinc deficiency, 1968
- Cladosporium*—
- carpophilum*, 353
  - cucumerinum*, 687c, 1635
  - effusum*, 300d
  - fulvum*, 674, 1221, 3141
- Clamps, micro-climate in, 12
- Clasterosporium carpophilum*, 354, 2166
- Clematis—
- a book on, 3097
  - diseases, 1236
- Clemora smithii*, 2075
- Clerodendrum*, taxonomy of, 1938
- Climate—*see also* Meteorology, Rainfall, Sunshine and Weather—
- in British Columbia, 1244c, 3135
  - of Canada, 2157
  - fig characters affected by, 147
  - micro—
    - in clamps, 12
    - Phytophthora infestans* response to, 2712
    - of potato and tomato, 1740, 2711, 2712
  - vine yield an indicator for, 15
- Clitocybe tabescens*, 2453
- Cloches—
- cultivation under, 3228y
  - temperature in, 1226
- Clove—
- growing in Seychelles, 1034

## Clove (*continued*)—

- histology, 2029
  - leaf diseases (*Gloeosporium* sp., *Cylindrocladium* sp.), 2031
  - manuring, 2188
  - “sudden death” disease, 1034, 2029, 2030, 2154, 2188, 4115
  - transpiration, 2030
- Cobalt—
- content of Hawaiian soils and plants, 2008
  - deficiency in coffee, 1026
  - determination, 19
- Cobnut—*see also* Filbert and Hazel—growing in England, 3001
- Coccids of cacao, 1187t
- Coccinellids, insecticide effect on, 2523
- Coccomyces*—
- hiemalis*, 350, 2464
  - on *Prunus* spp., 2536p
- Coccotrypes pygmaeus*, 4137
- Coccus viridis*, 2054
- Cockchafer—*see also* White grub and Chafer—
- control, 368-370, 1485, 2150, 3492z
- Cocoa—*see also* Cacao—Conference, Rep. 1950, 1219
- Coconut—
- Aspidiotus* sp. on, 3992
  - branching, 2033
  - Brassolis sophorae* on, 3103
  - cadang-cadang disease, 2006, 2995
  - composition, 2993
  - Darna catenatus* on, 2035
  - floral biology, 2034
  - germination, 2993
  - growing—
    - in British Guiana, 2145, 2146
    - in Ceylon, 1035
    - in Trinidad, 2032
    - in U.S.A., 1998
  - harvesting, 3991
  - leaf moth (*Artona catoxantha*), 2996
  - locust control, 2976
  - milk, growth substance from, 1287
  - oil, 2991
  - phosphatases in, 2994
  - planting, 1037, 1038
  - pollen germination, 2034
  - pollination, 1036, 2034
  - products—*see also* Copra—2036
  - rejuvenation of plantations, 1040
  - seedling growth, factors affecting, 2992
  - soil conservation in, 1039
  - tapering disease, 1041
- Codling moth (*Cydia pomonella*)—*see also* Apple—
- control, 383, 1502, 1503, 2500, 2501, 3434, 3462, 3488
  - false (*Argyroplote leucotreta*), 2173
  - in New Zealand, 3493
  - oviposition, 3433
  - warnings, 383, 3492r
- Coelaenomenodera* spp. on oil palm, 2061

*Coffea*—

*arabica*—

- × *C. dewevrei* hybrid, 1045
- genetics of, 2040
- mutations of, 1048
- var. *rugosa*, 1046
- taxonomy, 1047, 2039
- var. *typica*, 2998
- various, 1049, 1064, 1066, 1187k, 2050, 2998, 3001, 3011

*canephora*, 1062, 3965

*excelsa*, 2188, 4010

*liberica*, 2188

*neo-arnoldiana*, 4010

*robusta*, 1026, 1241, 4010

Coffee—

American leaf disease (*Omphalia flavida*) on, 1050, 3016

*Antestia* bug control, 1241, 3137

bean—

composition, 3011, 3012

mould control, 3018, 3019

berry borer (*Stephanoderes hampei*), 1065, 2052, 2053, 3137

biennial bearing, 3110

black rot (*Pellicularia koleroga*), 3113

breeding—see also below, improvement—  
2997, 3113, 4080k

canker (*Ceratostomella fimbriata*), 3015

*Chalaropsis* sp. on, 3088d

chlorosis, sun causes, 2051

cover crops, 1241

“crespera” disorder, 3014

cultivation, mechanization in, 3998

cuttings, 1229, 2182, 3113, 3136, 4001

*Dalcera abrasa* on, 4080d

damping off, 2989

exports from Brazil, 2037

flavour, “onion” and “bricky”, 3020, 3021

frost protection, 4009

*Fusarium*, susceptibility to, 4010, 4011

grafting, 2043

growing—

in Angola, 3993, 3994

in Brazil, 2038, 2042, 2044–2048, 3995, 3999, 4004, 4006

in British Guiana, 2145, 2146

in Colombia, 3088e, 3088f

in Costa Rica, 1050, 3997

economics of, 1067, 3088f, 3994

in El Salvador, 3996

in Kenya, 1229, 2111n

in Madagascar, 1064, 1187k

in Nyasaland, 2111g

in Puerto Rico, 1044

in Southern Rhodesia, 1043

in Tanganyika, 2182

in Uganda, 1241

in Zanzibar, 2188

*Hemileia vastatrix* on, 1064

husks as cattle feed, 2111a

improvement in Java, 2111f

intercropping of, 2048

irrigation, 1060, 3136

Coffee (continued)—

leaf—

epidermis of, 2972

fall control, 1229

miner (*Perileucoptera coffeella*), 1066, 1187v

manuring—

general, 1059, 2044, 2045, 2182, 3113, 3136, 4002, 4003, 4080g

green, 1058, 1187m

medicinal value of, 2111r

mineral deficiency in, 2050

molybdenum and cobalt deficiency, 1026

mulching, 1229, 3006, 3007, 3136

nematodes in, 3017

overbearing in, 3966

planting, contour, 1053

pollination, 1061, 1062, 2998

polyploid—see also below, tetraploid—  
4080k

processing, 1067, 2053

production and consumption, 2149, 4144

pruning, 1063, 1229, 2049, 2182, 3013, 3113, 3136, 4008

pulp—see also above, husks—utilization,  
3007

quality, 2042

rain requirements, 3002

research in Kenya, 2111e

Res. Stat. Lyamungu, Moshi, A.R. 1948, 3136

restoration of old plantations, 4004, 4006

root—

extracts toxic to *Inga*, 3010

system of, 1057, 3001

scale insect control, 2054

seed—

colour, genetics of, 2040

moisture content, 3088a

size and quality, 2042

sowing, 1051

selection—see also above, improvement—  
2998–3000, 3013

shade trees for, 1055, 1056, 1241, 2047, 3010, 3137

shading, 2041, 2051, 3009, 4006, 4007

soil(s)—

conservation, 3003–3005, 4004, 4005, 4080g

erosion losses, determination of, 1052

vegetation of, 1187k

stem borer (*Anthonus leuconotus*), 1043

tetraploid, 1045, 1046

transpiration, 4123

transplanting, 998, 1054

trigonelline in, 3012

varieties, 1050, 3999, 4000

variety trials, 1049, 2202

weed control, 471, 1599, 3113

yields, 2999, 3000, 3136

*Cola chlamydantha*, a host of swollen shoot  
virus, 3982

*Cola* nut, 3796

*Colaphellus bowringi* control, 818

*Colaspis hypochlora*, 3103

# SUBJECT INDEX

- Colchicine—  
 plus bee venom, growth stimulated by, 80  
 in breeding work, 3  
 protoplasm response to, 2253  
 sodium nucleate compared with, 109a  
 sources of, 77  
 syringe for injecting, 79  
 treatment—  
   of apple, 78  
   of *Canavalia ensiformis*, 1295  
   of cherry, 78  
   of cinchona, 3989  
   of flowers, 844  
   of hop, 2815  
   of medicinal plants, 796  
   of onion, 1295  
   of ornamental plants, 2838  
   of radish, 1681  
   of snapdragon, 78  
   of spinach, 2663  
   of tobacco, 1815d  
 X-rays combined with, 3181  
 tumours induced by, 80  
*Colchicum* spp., as sources of colchicine and  
   other compounds, 77, 2793  
 Cold—*see also* Frost and Storage, cold—  
   injury to tung, 3961  
*Coleus blumei* cuttings, 1881  
*Coleus* nutrition, 3836  
 Colewort, frost damage to flower, 520  
*Colladonus* spp., as virus vectors, 431t, 3674t  
 Collard composition, 542  
*Collembola* spp. control, 2584  
*Colletotrichum*—  
   *derridis*, 2822  
   *falcatum*, 1156-1158, 3069, 4060  
   *fuscum*, 2794  
   *gloeosporioides*, 932, 3084  
   *lagenarium*, 567  
   *lindemuthianum*, 2622  
   *multosetorum*, 652  
   *phomoides*, 673, 3666  
   sp. on black pepper, 810  
   sp. on Easter-lily, 2887o  
 Colombia—  
   cacao growing, 1024, 1032, 2016  
   coffee growing, 3088e, 3088f  
   potato and seed potato growing, 690, 3682  
   rubber growing, 4023  
 Colonial—  
   Development Corporation, A.R. 1950, 3105  
   Research Council, A.R. 1949/50, 3106  
 Colorado—  
   agric. Exp. Stat., A.R. 1948/49, 1220  
   beetle—*see* Potato  
   -Wyoming Acad. Sci., Papers presented at  
     21st ann. Meeting, 4111  
 Colour plastids, 1709  
 Columbia Basin project, 1729  
 Commonwealth econ. Cttee, Reps, 2149,  
   3107  
 Compost—  
   from coffee pulp, 3008  
   mulching to replace soil cultivation, 1205  
 Compost (*continued*)—  
   for mushrooms—*see also* Mushroom, media  
     —1665, 1666  
   preparation, 1665, 3199  
   from sawdust, 4147  
   from town waste, 4116  
 Condiment plants—*see also separate species*—  
   of North Africa, 3764  
*Coniella diplodiella*, 2166  
*Coniothyrium diplodiella*, 3406  
*Conotrachelus nenuphar*—*see* Plum curculio  
   and Peach, plum curculio  
 Containers for soft fruit, 300m, 1234  
 Contour—*see* Planting  
*Convolvulus*—*see* Bindweed  
 Copper—  
   content—  
     of chloroplasts, 3160  
     and manuring, 3204  
   deficiency—  
     in fruit trees, 1256, 1313  
     in onion, 1674  
     in orange, 952  
     in pear, 3362  
     in sugar cane, 3051  
     in tomato, 3652  
     in tung, 1008, 3960  
   determination, 19, 1331j, 1256, 2206, 2283p  
   fungicides—*see* Sprays, fungicides  
 Copra, 1042, 2036, 4104  
*Copturomimus perseae*, 934  
 Corchorin from jute seed, 797  
*Cordia*—  
   *macrostachya* control, 4098  
   spp. for coffee shading, 1241  
 Coreopsis, polyploid, 2838  
*Coreopsis stillmanii*, pigments of, 2850  
 Cork oak growing, a manual on, 2130  
 Cornell agric. Exp. Stat., A.R. 1949/50,  
   4113  
 Cornwall, vegetable and flower growing, 2159  
*Corticium*—  
   *galactinum*, 2834  
   *rolfsii*, 567  
   *vagum*, 567  
*Cortinellus berkeleyanus*, 604-606  
 Cortisone—  
   a growth inhibiting substance, 1289  
   from *Strophanthus* spp., 2797  
*Corylus* spp.—*see* Cobnut, Filbert and Hazel  
*Corynebacterium*—  
   *fascians*, 839, 1888, 2620  
   *michiganense*, 3664  
   *sepedonicum*, 1769, 2733  
   spp., antibiotics inhibit, 3393  
*Coryneum myristicae*, 2812  
*Corynocarpus laevigata*, karakin from, 2832c  
*Cosmopolites sordidus*, 2981  
*Cosmos bipinnatus*, photoperiodic reaction, 48  
 Cost—*see also* Economics—  
   of crop production or similar operations,  
     657, 688h, 1162, 1995, 3236, 3832,  
     3965, 3975, 3994, 4116  
   of explosives in agriculture, 1322



- Costa Rica—  
 cacao growing, 1025, 1033  
 coffee growing, 1050, 3997  
*Cotinis nitida*, 790  
 Cotyledons—  
 culture of isolated, 36  
 plants raised from—*see also* Embryo—64  
 Couch grass (*Agropyron* spp.) control, 437, 487,  
 1575, 1578, 1603v, 2549, 3535-3537  
*Coumarouna* spp., coumarin from, 1843, 1844  
*Courbonia virgata*, a medicinal plant, 1870f  
 Covariance, analysis of—*see also* Statistical—  
 2137  
 Cover crops—*see also* individual plants, Manur-  
 ing, green, and fruit and plantation  
 crops under manuring—  
 almond, 178  
 apple, 177, 1381, 1382  
 arsenic soil residue affects, 177  
 citrus, 2003f, 2905, 3917, 3926  
 coffee, 1241  
 fig, 178  
 grasshopper control in, 1227  
 orange, 3926  
 orchard, 2285  
 peach, 179, 180  
 rubber, 2169  
 for soil conservation, 3285  
 subtropical fruit, 3917  
 sugar cane, 1147  
 tung, 2963  
 vine, 282, 3345  
 Crabgrass (*Digitaria* spp.) and its control,  
 40, 1574, 1577, 1603h, 1603i, 1603r,  
 2550, 3116, 3543-3545, 3559b, 3559h  
 Cranberry—  
 flooding, 3417  
 manuring, 4135  
 pest control, 3417  
 Station, East Wareham, Mass., 4131  
 weed control, 3496, 3534  
 Crassulaceae, sedoheptulose determination in,  
 22  
*Crataegus*—  
*mexicana* as a fruit tree and rootstock, 162  
*pubescens*, uses of fruit, 1337  
 Crates, uses of vegetable, 1619  
*Cricula trifenestrata*, 3990  
 Crinums of tropical Africa, 2887h  
*Crioceris*—  
*asparagi*, 2596  
*duodecimpunctata*, 2596  
 Crocus—  
 chromosome numbers of, 1898, 1899, 1950j  
 leaf structure, 1899  
*vernus*, 1898  
*Cronartium ribicola*, 124  
*Crotalaria* spp., mosaic of, 1877, 4080e  
*Croton tiglium*, an insecticidal plant and a  
 source of fish poison, 3797  
 Crown gall (*Bacterium tumefaciens*)—  
 of artichoke, 109q  
 callusing over of roots prevents infection,  
 1457  
 Crown gall (*continued*)—  
 of carrot, 109q  
 of dahlia, 1888  
 gamma radiation to control, 2708g  
 heat treatment of, 2854  
 of periwinkle, 2283n, 2854  
 of sunflower, 2283n  
 tissue cultures, 2264, 2267  
 of tomato, 2708g  
 of vine, 2264  
*Cryptorhynchus mangiferae*, 3110  
 Cryptostegia rubber, 820  
*Cryptomium falcatum*, 3877  
 Cuba, sugar cane growing, 1105  
 Cucumber—*see also* Cucurbits—  
 artificial light for, 565  
 bacterial wilt, 2709a  
 beetle, striped (*Acalymma vittata*), 687g  
 chlorophyll inhibition in, 3194  
 cotyledons, plants raised from, 64  
 downy mildew (*Peronospora cubensis*), 569,  
 570, 1637, 3582  
 fruit set in, 2168  
*Fusarium* wilt of, 3581  
 grafting, 4134  
 gummosis (*Cladosporium cucumerinum*),  
 687c, 1635, 2708z  
 mosaic, 2708h, 2708i, 3674x  
 mulching, 521, 1608  
 mutations in, 688j  
 pectinesterase in, 3579  
 photoperiodic response, 3173  
*Pseudomonas lachrymans* on, 2709b  
 soil sterilization, 3580  
 sugar solution for, 4134  
 varieties, disease-resistant, 570  
 virus I, 637, 2863  
 virus—  
 inhibitor, 2708v  
 transmitted from sour cherry, 2536 l,  
 2708x, 3674x  
*Cucumis utilisissimus*, seed oil from, 3814  
*Cucurbita pepo*—*see also* Pumpkin—classifica-  
 tion of, 561  
 Cucurbits—*see also* individual crops—  
 downy mildew (*Peronospora cubensis*), 567-  
 570, 1637, 2583, 3582  
*Fusarium*—  
 resistance, 2603  
 wilt of, 2708o, 2709a, 3581, 3605, 3606  
 grafting, 2603  
 growing in Queensland, 1632  
 mosaic, 2606, 3674x  
 nematodes in, 3602  
 pollination, 2604  
 powdery mildew (*Erysiphe cichoracearum*),  
 567, 568, 1636  
 root rot of (*Thielaviopsis basicola*), 2608  
 spray injury to, 2610  
 squash bug (*Anasa tristis*) on, 2609  
 transplanting, 1327  
 weed control, 1227  
*Cudrania triloba*, growth-promoting and growth-  
 inhibiting substances in, 63

# SUBJECT INDEX

- Cultivator—*see also* Machines—an oscillating, 3218
- Curacao, orange peel industry, 995
- Curculio*—  
*caryae*, 1487  
 spp. on chestnut, 1486
- Currant—*see also* Black and Red currant and Vine, raisin—  
 fruit fly (*Epochra canadensis*), 426, 2493  
 layering, 245  
 pollination, 243, 244  
 potash deficiency in, 2375c  
 shoot borer (*Incurvaria capitella*), 386  
 spray residue on, 426
- Cuscuta* spp. for virus transmission, 337, 1877
- Custard apple—*see* Cherimoya
- Cuttings—*see also* particular plants and growth substances—  
 artificial light for, 1236  
 leaf, 3022  
 nutrient solution treatment for, 3843  
 of ornamental plants, 1872  
 root, 71, 72, 3264, 3265  
 rootstock, 2315, 2900  
 soil blocks for rooting, 2271  
 storage of, 1880
- Cutworm control, 2170, 2588
- Cyclamen—  
 nutrition, 3836  
*Otiorrhynchus sulcatus* on, 2861  
 Persian, 3916i  
 production, cost of, 4116  
*Ramularia* leaf disease and stunt, 1900  
 taxonomy, genetics and nomenclature of, 2860, 3916j
- Cycloheximide, an antibiotic, 2885
- Cydia*—*see also* *Laspeyresia*—*funebrana*, 390
- Cylas formicarius elegantulus*, 1693
- Cylindrocladium quinqueseptatum*, 2031
- Cymbidium* spp., mosaic of, 3879
- Cymbopogon* spp.—*see* Lemon-grass
- Cynodon* spp.—*see also* Bermuda grass—  
 cytology of, 1941  
 growth rate of, 1942  
 vegetative propagation of, 1944
- Cynoglossum, polyploid, 2838
- Cyperus* spp.—*see* Nutgrass
- Cytospora sacchari*, 1156
- Cytosporina citriperda*, 994
- Dactylopius adonidum*, 1495
- Dacus*—  
*cucurbitae*, 3110, 3669  
*dorsalis*, 3110  
*oleae*, 376, 377, 2296, 2494-2496
- Daffodil—*see also* Bulb(s) and Narcissus—  
 bulbs, warm water treatment of, 2576  
 manuring, 1896  
 weed control, 1896
- Dahlia—  
 cultivation, 1950k, 1950 l  
 cut, prolonging life of, 1874  
 diseases, 1888  
 doubling, 3870
- Dahlia (*continued*)—  
 grafting, 1875  
 a manual on, 1207  
 mosaic, 2887e  
 selection of virus-free plants, 2747d
- Dalcera abrasa*, 4080d
- Damping-off—*see also* *Pythium* and other relevant genera—  
 in *Amaranthus tricolor*, 2010  
 antagonistic organisms control, 2662  
 in cinchona, 2028, 2989  
 in coffee, 2989  
 in dahlia, 1888  
 in lettuce, 1615, 1685, 2662  
 in pea, 595, 1615, 1651, 4118  
 red copper oxide controls, 904  
 in tobacco, 3104, 3759  
 in tropical crops, 2010  
 in vegetables, 1615  
 in woody ornamentals, 4131
- Dandelion, bee behaviour affected by, 170
- Daphne mezereum*, leaf spot of, 1236
- Darna catenatus*, 2035
- Date—  
 bunch covers, 1999  
 fruit spoilage by fungi and insects, 1999  
 fruit thinning, 2953  
*Fusarium albedinis* on, 2954, 2955  
 growing—  
   in Russia, 2968k  
   in U.S.A., 1998, 3955  
 manuring, 2953  
 pest control, 2000, 2001  
 pollination, 2953  
 storage, 2001  
 varieties, 3955
- Datura*—  
 alkaloid content of, 2759  
 spp. control, 1573, 2152  
*stramonium*, a virus indicator, 796, 1758
- Deer control and repellents, 2168
- Deficiency—  
 mineral—*see also* under individual elements—  
   in bean, 1305  
   in cacao, 1026  
   in chicory, 1684  
   in coffee, 2050  
   diagnosis of, 1305, 1311, 1313, 3205  
   in fruit trees, 310, 431c  
   in glasshouse plants, 1876  
   in peach, 1231  
   in rubber, 1092  
   in vine, 280  
 minor element, in fruit trees, 1313, 2916, 3492j
- Defoliation of woody plants by chemicals, 3294, 3295
- Dehydrase activity in plastids, 32
- Déhydration—*see also* individual crops under drying—of fruit, 3308
- Delayed foliation—  
 in deciduous fruit trees, 150, 325, 1229, 2160, 2174, 2431, 2432, 3118, 3372, 3373  
 in tung, 1007

- Delphinium—  
flowering, starter solution induces early, 837  
hybrid, 19501
- Denmark—  
diseases and pests in, 3359  
frost damage in, 3367  
hort. Soc., Yearbook 1950, 2151
- Dermolepida albohirtum*, 2090, 3133
- Derris—  
*Colletotrichum derridis* on, 2822  
cultivation, 817  
cuttings, 2820  
flowering induced, 2821  
*malaccensis*, rotenone content of, 817  
a review, 3831n  
ridging, 1870d  
rotenone determination, 1870e
- Deuterophoma tracheiphila*, 1981, 1982
- Diabrotica*—  
spp. on bean, 3584  
*undecimpunctata howardi*, downy mildew  
spread by, 569
- Dianthus*, polyploid, 2838
- Diaporthe citri*, 2931
- Diarthronomyia chrysanthemi*, 864
- Diaspis pentagona*, 2508
- Diatraea saccharalis*, 1104, 1161, 3072
- Dicentra eximia*, a medicinal plant, 1870j
- Dichroa febrifuga*, a medicinal plant, 3798
- Dichrostachys glomerata*, edible pods from,  
1182
- Dicotyledons, anatomy of the, 1202
- Didymella applanata*, 378
- Digging with sprung spade, automatic, 104
- Digitalis*—  
anthracnose (*Colletotrichum fuscum*), 2794  
hybrids, 865  
*purpurea*, polyploid, 796, 3152
- Digitaria* spp.—see Crabgrass
- Dill—  
cultivation and diseases, 2806, 2807  
seed production, 3770
- 2,4-dinitrophenol effect on respiration, 109o
- Dinoderus minutus*, 3774
- Diospyros*—  
*kaki*—see Persimmon  
*lotus* and *Diospyros virginiana*, 3918
- Diplodia*—  
*natalensis*, 932, 1978  
sp. on rubber, 4110
- Dipterocarpus indicus*, essential oil from, 1870h
- Disease(s)—see also pathogens and hosts—  
chemotherapy of plant, 2419  
control—  
by antibiotics—see Antibiotics  
biological, 1064  
a review, 431j  
in Denmark, 3359  
of fruit, control of, 302, 304  
in Guatemala, 1018  
investigations in U.S.A., 2421  
in Italy, 4107  
losses from, 431i  
in Madagascar, 3088c
- Diseases(s) (continued)—  
a manual on plant, 2134  
in New Zealand, fruit, 3492i  
resistance—  
metabolic, 38  
nature of, 32281, 3358  
seed-borne, 346, 1233  
in Southern Rhodesia, 1460  
urea foliage sprays and fruit, 4136  
warning service, 2583
- Ditylenchus*—  
*destructor*, 2864, 3724b  
*dipsaci*, 872, 1771
- Dodder for virus transmission, 337, 1877
- Doralis*—  
*fabae*, 1776  
spp., control of, 1517
- Dormancy—see also Growth substances,  
dormancy, Delayed foliation and indi-  
vidual plants—  
and cell protoplasm, 33-35  
salt absorption in root tissue inhibited  
during, 618
- Dothidella ulei*, 1089, 2070
- Double working—see also individual tree  
fruits under frameworking and stem  
builders—a review on, 156
- Dragon-fly (*Lestes viridis*) damage to fruit tree  
branches, 2492
- Drainage pumps, 1331w
- Dried Fruit Control Bd, Australia, A.R.  
1949/50, 4105
- Droplet size, an apparatus for producing  
uniform, 1328
- Drought—  
injury to potato, 14  
phytotoxicity of insecticides increased by,  
1222  
resistance—  
indicators of, 109m  
nature of, 181  
polyploidy and, 3183  
a review on, 3365  
in tomato, 3647  
sugar cane response to, 1133, 1134, 1136
- Drug plants—see Medicinal plants
- Drugs, pharmaceutical and natural, 2832i
- Duboisia* spp. as medicinal plants, 2150
- Dunder for manuring, 1126
- Duranta plumieri*, 1939
- Duthie-Craibstone Farm, experiments at, 3148
- Dwarfed potted trees, 927y
- Earhart Plant Res. Lab. Calif., 1253
- Earthworm control, 3913
- Earwig (*Forficula* spp.) control, 373
- East African Agric. Forest. Res. Organ.,  
2154, 3967, 4115
- East Malling Res. Stat.—  
A. R. 1950, 3108  
work at, 2321, 3129, 3149
- Echinocerus*, histogenesis of, 2887d



- Economics—*see also* Cost—  
of crop production, 256, 258, 560, 600, 769,  
793, 805, 1067, 1093, 1228, 1792, 2529,  
3088f, 3818, 4136  
of electric soil heating, 4108  
of a fruit farm, 2118  
of the mechanization of agriculture, 1187c,  
2139  
Ecuador, cacao growing, 2018  
Edinburgh—  
and East of Scotland Coll. Agric. A.R.,  
1949-50, 4153f  
School of Agriculture, 1331g  
Eggplant (*Solanum melongena*)—  
*Fusarium* wilt, 649  
grafting, 2678  
heterosis, 1725b  
*Phomopsis* blight, 2679, 3671  
yellows, 2772  
*Eichhornia crassipes*—*see* Water hyacinth  
Éire—  
fruit growing, 113  
Minist. Agric., A.R. 1949, 3144a  
Elder, phenological data for, 11  
Electrical—  
field, growth responses postulate an inherent  
1269  
heating—  
air, in hot beds, 4116  
of glasshouses, 3215  
soil, 5, 629, 2159, 4108, 4116  
in storage, 646  
resistance measurement for potato quality  
determination, 719  
soil sterilization, 5  
weed control, 456  
El Salvador—  
agriculture, 1016  
coffee growing, 3996  
Electron microscope, exposure meter for, 3224  
*Elsinoe fawcetti*, 2931  
*Elsinoe phaseoli*, 1459  
*Elusine* control, 2152  
*Emblica officinalis*, a medicinal plant, 3799  
Embryo culture, 152, 2870, 3248, 3249  
*Empoasca fabae*, 1775, 1782, 1783, 2740  
*Endoconidiophora fimbriata*, 645  
Endomycin, an antibiotic, 3456  
*Endothia parasitica*, 1470, 2404, 2465, 3352  
England—*see also* particular areas and Great  
Britain—  
Agricultural Improvement Coun., Rep. 1950,  
4103  
agricultural statistics 1945/47, 3123  
Colorado beetle in, 3724h  
crop protection products approval scheme,  
3492t  
fruit—  
growing, 3313  
storage, 234d  
and vegetable grading, 1249  
glasshouse research, 687 l  
horticulture, 2283s, 3229d  
tomato growing, 654, 655  
England (*continued*)—  
vine growing, 257, 294  
virus diseases of fruit trees, 329  
Entomology—  
a manual on, 3090  
subtropical, 1194  
*Entyloma dahliae*, 1888  
*Ephedra* spp. in Argentina, 927m, 927n  
*Ephedra* spp. as medicinal plants, 3800  
*Ephestia elutella*, 2787  
*Epicauda adpersa*, 691  
*Epicomotis hirta*, 1484  
*Epidendrum tampense* var. *albolabium*, 1917  
*Epidiaspis leperii*, 1507  
*Epilachna*—  
28-maculata, 701, 2584  
*varivestis*—*see* Bean beetle, Mexican  
*Epiplagiops littoralis*, 1616  
*Eptimerus*—  
spp. on vine, 3473  
*vitis*, 2476, 3416  
*Epitrix*—  
*cucumeris*, 1775  
*hirtipennis*, 2780  
*tuberis*, 2739  
*Epochra canadensis*, 426, 2493  
*Equisetum arvense* control, 2546  
*Eriocampoides limacina*, 393  
*Eriopsis brassicae*, 1627  
*Eriophyes*—  
*avellanae*, 1499  
*cladophthirus*, 3670  
*gracilis*, 3410  
*piri*, 2477  
*vitis*, 380, 3472  
*Eriosoma lanigerum*—*see* Apple, woolly aphid  
*Erwinia*—  
*amylovora*, 1370, 2451  
*anas*, 2067  
*atroseptica*, 1770  
*carotovora*, 653, 739, 1614, 1770  
spp., antibiotics inhibit, 3393  
*vitivora*, 2174  
*Erysiphe*—*see also* particular crops under  
mildew—*cichoracearum*, 567, 568, 768m,  
3754  
*Erythropsis barteri*, a host for cacao virus, 3140  
Essential oil—*see* Oil, essential  
Esterase in *Hevea* latex, 3050  
Ethylene—  
emission—  
by cut flowers, 842, 847  
by fruits, 2283z  
by virus-infected plants, 2437  
treatment for ripening fruits, nuts or vege-  
tables, 226, 2371, 2414, 3950  
Eucalyptus—  
*citriodora*, 3896  
leaf blister sawfly (*Phylacteophaga eucalypti*),  
2584  
snout-beetle (*Gonipterus sentellatus*), 2173  
species, essential oil from, 3802, 3803  
termite control, 999  
transplanting, 998

- Eucalyptus* (continued)—  
 uses of, 997  
*Eudemis* control on vine, 2166, 3474  
*Eugenia*, scale insect control on, 2976  
*Eumerus*—  
*strigatus*, 888  
*tuberculatus*, 888, 3875  
*Euonymus*—  
*Doralis* spp. on, 1517  
*fortunei radicans*, 1932  
 scale, 4131  
*verrucosa*—  
 resins from, 1839  
 seed germination, 3910  
*Euphorbia*—  
*esula* control, 1567, 2547  
*pulcherrima*—see *Poinsettia*  
*Euproctis phaeorrhoea*, fruit tree defoliation by, 381  
*Euschistus* spp. on peach, 3423  
*Eutetranychus clarki*, 2940  
*Euxoa segetis* and *E. subalba*, 2170  
 Evapotranspiration, 109s, 2203, 3228c  
 Evolution in plants, a manual on, 2133  
 Exhibition of Fruit, 234b  
 Explosives in agriculture, 1322, 2273
- Fagraea racemosa*, flower scent of, 3163  
 Fasciation—  
 bacterial, 839  
 in sweet pea, 2620  
 in tomato, 3657  
*Fatsia japonica*, phototropism of, 43  
*Faustinus cubae*, 2786  
*Feltia subterranea*, 2780  
 Fennel—  
 seed production, 2808, 3770  
 weed control, 476  
 Fermentation Ind., Rep. 1949, 2178  
 Fern(s)—  
 aphids, injury to, 3877  
 callus tissue culture, 2260  
 control, 3518  
 drought resistance in, 109m  
 of the Lesser Sunda Islands, 3916p  
 prothallia, cultivation of, 3916v  
 a virus disease of, 1950i  
*Ferrisia virgata*, a virus vector  
 Fertilizer(s)—see also *Manuring and separate crops*—  
 aeroplane for applying, 2536a, 4135  
 application in irrigation water—see *Irrigation*  
 Chilean nitrate, 1610  
 foliage sprays to apply—see also *Manuring*  
 fruit trees, 664, 1246  
 growth substance enhances action of, 3648  
 injection of liquid—see also *Manuring*  
 fruit trees, 2270  
 machinery for applying, 84, 101, 1331f, 2269, 3067, 3998  
 a manual on, 2124  
 Nitrophoska, 526  
 practices, a review, 1246
- Fertilizer(s) (continued)—  
 recommendations for Kansas, 2708s  
 seed soaking in solution of, 517  
*Festuca elatior* and *Festuca ovina*, 1946  
 Fibre—  
 industry of Mauritius, 4098  
 plants—  
*Agave sisalana*—see *Sisal*  
*Aloe* spp., 4098  
 bamboo, 1867  
*Boehmeria* spp.—see *Ramie*  
 broom, 807  
 for brush making, 806  
*Furcraea* spp., 1069, 4098  
*henequen* (*Agave fourcroydes*), 3775  
 in Malaya, 4129  
 New Zealand flax (*Phormium tenax*), 3131, 3831j, 3776, 3777  
 Nipah palm, 2802  
*Pandanus tectorius* var. *laevis*, 1833  
*Phoenix rugosa*, 1834  
*Pouzolzia hypoleuca*, 1835  
*Sansevieria* spp., 3022, 3023  
*Saxothamnus scoparius*, 807  
*Spartium junceum*, 807  
*Urena lobata*, 1241  
 scraper machine, 1069  
 tingo, 1835
- Ficus*—  
*carica*, growth promoting and growth inhibiting substances in, 63  
*elastica* as a rubber plant, 1085  
 hybrid, an interspecific, 143  
 laticiferous system in the genus, 2073
- Fig—  
 climate affects character, 147  
 cover crops, 178  
 defoliation, 2359  
 frost protection, 1447  
 fruit—  
 bud formation, 2306  
 colour and growth, olive oil increases, 206  
 growth, phases of, 2307  
 growing in Guatemala, 1336  
 ovary wall development, 2308  
 parthenocarpy induced in, 1392, 2308, 2344, 2345  
 powder, 2375d  
 scale control, 2507  
 wasp damage to, 2345
- Fiji—  
 agriculture in, 2004  
 Dep. Agric., A.R. 1949, 4153h
- Filbert—see also *Cobnut and Hazel*—  
 breeding, 124  
 enzymes for cheese making, 3353  
 frost damage to, 1428  
 growing in England, 3001
- Finland, kok-saghyz growing, 2823  
 Fish poisons from plants, 3797  
*Flacourtia ramontchi* cuttings, 3085  
 Flavoprotein, 2283h  
 Flea beetle control—see also *particular crops*—  
 1725h, 2589, 2708w

# SUBJECT INDEX

Flooding injury to apple rootstocks, 3255

Flora—

- of Angola, 1013, 4080i
- of the Belgian Congo, 4092
- of Belgium, 2162
- of Brazil, 2283g
- of the Dead Sea region, 1245
- of Sierra de Corbera, Valencia, 2831d
- of tropical French Africa, 2005
- of Venezuela, 2131

Florida—

- agric. Exp. Stat., A.R. 1949/50, 1221
- ramie growing in, 2832p

Flower(s)—*see also individual flower crops—*  
cut—

- ethylene emission by, 842, 847
- prolonging life of, 1874, 1892, 3263, 4113
- storage, 224, 842, 843, 927k

damping-off in, 840

disease control in 1230

double, 845, 846

drop, growth substances increase, 289

garden, a manual on, 4099

growing—

- in British Columbia, 3135
- in Canada, 2157, 2836, 2837
- in Cornwall, 2159
- in France, 2887r
- in Great Britain, 2121
- manuals on, 2121, 2127, 3092
- in U.S.A., 927f, 2835

induction—*see also individual plants under*  
photoperiod—

- chemicals affect, 2259, 2283o
- nature of, 2195

marketing in Hawaii, 3835, 3916q

pests, 2119

production, cost of, 3832

red spider control, 3837

scent, diacetyl as a, 3163

storage—*see above*, cut

Flowering—

- gregarious, of *Zephyranthes rosea*, 3916m
- growth habit and, 3228f
- growth substances to delay—*see* Growth substances
- hormones, 109x
- mechanism of, 3168

Fluorine injury to plants, 1706, 3378, 3872

Fomes—

- lignosus*, 1218, 2169, 3047
- noxius*, 2120

Food Agric. Statistics, F.A.O., Year Book  
1948 and 1949, 2155, 2156

Forcing—

- chicory, 629, 3622
- hydrangea, 1950m
- iris, 881, 882, 4110
- lilac, 4116
- lily, 886
- narcissus, 4110
- parsley, 3674v
- radish, 3674v
- strawberry, 1341

Forcing (*continued*)—

- top fruit, 1341
- tulip, 1915

*Forficula auricularia*, 373

Forget-me-not nutrition, 3836

Formosa, agricultural research, 3088j

*Forskning og forsøk i landbruket*, a new  
periodical, 1243

Forsythia cuttings, 2879

Fort Vermilion Dominion exp. Sub-Stat., Rep.  
1939/48, 2157

*Fortunella hindsii*, chromosome number of,  
2003b

*Fragaria vesca* as an index plant for strawberry  
viruses, 338

Frames—*see also* Hotbed—

- glass and preservatives for 1226
- temperature in, 1226

Frameworking—

- apricot, 2319
- fruit trees, 1359
- mango, 4014
- peach, 2319
- pear, 2318

France—

- bean varieties, 576
- chestnut growing, 3352
- flower growing, 2887r
- horticulture in, 2283s
- pea growing, 3585
- Pomological Congress 1950, 4112
- rose growing, 1922

*Fraxinus americana* control, 3531

Freezing—

- point measurement, 2283 l
- quick—*see* Storage, frozen pack

Frequentin, an antibiotic, 2513

Friesdorf hort. Res. Stat., Godesberg, A.R.  
1950, 4116

Frit, a soil medium, 99, 3361, 3863

Frost—

- apparatus for experiments on, 2283
- damage—

- to apple—*see* Apple
- to avocado, 2889
- to broad bean flower, 520
- to citrus—*see* Citrus
- to colewort flower, 520
- to fruit trees, 321, 3367, 3368
- to grapefruit, 948
- growth substances reduce spring, 2343
- to mango, 1071
- to nuts, 1428, 1444
- to onion flower, 520
- to orange, 948
- to peach, 2428
- to pear, 211
- to radish flower, 520
- in Scandinavia, 3367
- to tropical and subtropical fruit trees, 2889
- to vine—*see* Vine
- penetration in soil, 12
- protection—
- of apple blossom, 322, 4149



# SUBJECT INDEX

## Frost—protection (*continued*)—

- of citrus, 2179, 2891
- of coffee, 4009
- by delaying flowering, 1221
- of figs, 1447
- of fruit trees, 1443, 1445, 2433, 2435
- by growth substances plus vitamin—*see*  
also above, by delaying flowering—  
3371
- by hessian screens, 2435
- by irrigation, 322, 2179, 3369
- of lemon, 949, 950, 3923
- by orchard heater, 2891
- by radiant heat, 4149
- by smoke screens, 2434
- of vine—*see* Vine
- by whitewashing, burying and wrapping,  
1443, 1447
- by windbreaks, 1445

## resistance—

- in apple—*see* Apple
- in apricot, 2294
- in bean, 579
- breeding for, 124, 1681
- in cherry, 1347
- in citrus, 937, 939, 947
- electrical conductivity of tissue extracts  
as a measure of, 1973
- of guayule, 3823
- of holly, 3131
- of lemon, 1972, 1973
- of mandarin, 1972, 1973
- and osmotic pressure, 3356
- of passion fruit, 1009
- in peach, 319, 4113
- physiology of, 33, 3365, 3366
- in plum, 320
- polyploidy and, 3183
- in radish, 1681
- in rose, 2873
- and soil moisture, 3823
- in tea, 1174
- in vine—*see* Vine
- in walnut, 3356

## Fruit—*see also individual fruits*—

- acids, determination of, 1331v
- Annual, The*, 1949/50 and 1950/51, 2184
- breeding in Canada, 124
- breeding in Sweden, 1212
- browning, non-enzymatic, 243m
- Commonwealth econ. Cttee Rep. on, 3107
- crops, mineral nutrition of, 87
- deciduous—
  - growing in Kenya, 1229
  - a South African bibliography on, 123
  - variety collection in Argentina, 127, 128
- dehydration of, 3308
- dried, industry in California, 2373
- drop retarded by growth substances, 201,  
203, 211, 964, 1293, 1391, 1969, 1970,  
2022, 2342, 2351-2356, 2358, 3296-3298,  
4110
- dumping, machine for, 2276
- for exhibition, 234b

## Fruit (*continued*)—

- fly(ies)—
  - Australian, collection of, 3492k
  - currant (*Epochra canadensis*, 2493
  - Mediterranean (*Ceratitis capitata*), 374,  
375, 1491-1493, 1989, 2174
  - Natal, 1491
  - oriental (*Dacus dorsalis*), 2536e, 3110
  - Queensland (*Strumeta tryoni*), 2584
- food value of, 195
- fumigation, 1538
- grading, 219-221, 1226, 1249, 2375p
- Grower Year Book*, 1951, 4117
- growing—*see also below*, varieties—
  - in Angola, 126
  - in Argentina, 127, 128, 1333
  - in British Columbia, 4109
  - in California, 1399j
  - in Éire, 113
  - in France, 2375e, 4112
  - in French North Africa, 1011e
  - in Germany, 1208, 1332
  - in Great Britain, 3313, 4117
  - in Hawaii, 1014
  - in India, 3121
  - in Italy, 112, 1349, 2375o
  - in Kansas, 2285
  - manuals on, 2113, 4086, 4093
  - in New Zealand, 117, 1234
  - in Northern Ireland, 114
  - in Norway, 3312t, 3312u
  - in Nova Scotia, 1235
  - in Peru, 110
  - in Russia, 121
  - in South Africa, 123
  - in Southern Rhodesia, 2160
  - in Sweden, 111, 1334, 3312a, 3312m
  - in Switzerland, 3230, 3231
  - in Tasmania, 151
  - in Victoria, Aust., 3312i
- juice production, 1216
- moth, oriental (*Grapholitha molesta*), 1232,  
1489, 2536x
- packing, 2375g
- pits, composition of, 3229a
- quality and water supply, 181
- research in India, 4122
- ripening by ethylene—*see* Ethylene
- set induced—*see* Growth substances, parth-  
enocarp
- size, wax sprays increase, 205, 3263
- storage—
  - cold, 2367, 2150
  - frozen pack, 1343, 1951, 2112, 2373,  
4143
  - general, 224, 2143
  - respiration in, 225, 2282
  - a review, 234o
- subtropical, research in South Africa, 928
- sugar content of, 2076
- thinning by growth substances—*see* Growth  
substances
- trade, a survey of the world's, 2184
- transport, 1399a

# SUBJECT INDEX

## Fruit (continued)—

- tree(s)—*see also* Orchard—
  - capital value of, 122
  - environment of the, 2284
  - growing in pots, 3312o
  - as hedges, 135, 920, 3232
  - manuring—*see* Manuring
  - moth borer (*Moraga unipunctata*), 2584
  - rootstocks, a review, 157
  - soil requirements of, 173
  - “sour sap” of, 3376
  - spacing, 121
  - stem height of, 212
  - transplanting, 1335
  - as windbreaks, 135, 328
- Trials, National, in England, 3240
- tropical—*see* Tropical
- varieties—*see also above*, growing—
  - in Algeria, 1399f
  - in Canada, 1216
  - in Scotland, 3148
  - in U.S.A., 1399c, 2375h
- vitamin C content in preserved, 234c
- Fucose estimation, 1331c
- Fucus evanescens*, 2829
- Fumes, tarry, vegetation damaged by, 2430
- Fumigation
  - of fruit, 1538
  - hydrocyanic acid, 1538, 1987
  - injury to potato, 758
  - methyl bromide—*see also below*, soil—758, 2329
  - Orlon tent for, 1987
  - soil—
    - for ant control, 361, 362
    - carbon bisulphide, 361
    - chloropicrin, 2781, 2834, 3463
    - formaldehyde, 2781
    - injector for, 3463, 3492x
    - methyl bromide, 362, 469, 1228, 2781
    - for weed control, 469, 1228, 2541

## Fungi—

- in citrus soils, 976, 977
- common British, 1209
- edible—*see also* Mushroom—604-606, 608
- and lichens in South Africa, 1193
- a manual on the physiology of, 1198, 2123
- temperature effect on some parasitic, 873
- transmission in propagation, 346

## Fungicides, *see* Sprays, fungicides

*Furcraea* spp as fibre plants, 1069, 4098

## Fusarium—

- albedinis*, 2954
- bud rot of chrysanthemum, 3916g
- caeruleum*—*see also below*, potato, 2729
- culmorum*, 734
- elegans*, 3581
- javanicum*, 3989
- lycopersici*, 649, 2698, 3674f, 4133
- martiella*, 3581
- moniliforme*, 1156
- orthoceras gladioli*, 3873
- oxysporum*—
  - f. batatas*, 644, 2676, 3638

## *Fusarium*—*oxysporum* (continued)—

- cubense*, 1079, 2012, 2164
- f. lycopersici*—*see above*, *lycopersici* var. *nicotianae*, 2773
- f. niveum*, 567
- on oil palm, 1079, 3029
- raphani*, 2653
- on potato—*see also above*, *caeruleum*, 731, 734, 735
- rot of narcissus, 887
- solani*, 734, 1920, 2676
- wilt—
  - of carnations, 2845, 3844
  - of cucurbits, 567, 1222, 1685, 2603, 2708o, 2709a
  - of mimosa, 1935
  - of pea, 594, 4118
  - xylarioides*, 4010
  - yellow of celery, 2708t
- Fusicladium*—*see also* Apple and Pear scab—
  - carophilum*, 1459
  - macrosporium*, 4090
  - pirinum* var. *pyracanthae*, 3909
- Futuna Island, insect pests of, 2975

*Galanthus* spp., taxonomy of, 1914

*Galeopsis* spp., control of, 2551

*Ganoderma pseudoferreum*, 2169

Garden pond, a book on the, 3098

## Gardenia—

- cuttings, 4110
- mealy bug control, 3884

Gardening, manuals on, 2117, 4090

## Garlic—

- in the Don basin, 688g
- rust (*Puccinia allii*), 3623
- a study of, 609
- wild, control of, 1603m, 1603u
- Gas damage to plants, 1613, 2430, 3377, 3378
- Genetics—*see also* Breeding—Soviet, 125, 702, 3150

Gentians, a manual on, 2135

Georgia Exp. Stat. A.R. 1949-50, 3109

## Geranium—

- cuttings, 72
- mineral deficiency in, 1876
- nutrition, 3836
- oil, 803, 1827
- stomatal behaviour of, 2227, 3167

## Germany—

- fruit growing, 1332
- pest control, 3469
- Phenological Service, 11
- San José scale control, 1540x
- temperature in, 109k

## Germination—*see* Seed germination

Geum, weevil injury to, 1889

Ginger, sources of, 1841, 2809

## *Ginkgo biloba*—

- cuttings, 912, 1933
- growth-promoting and growth-inhibiting substances in, 63

# SUBJECT INDEX

- Girdling—  
 mango, 4013  
 olive, 2310, 3290
- Gladiolus—  
 bacterial soft rot, 1904  
 cultivation, 1950 l  
 diseases, 1902  
 dry rot, 1903  
 fluorine injury to, 3872  
 growing in South Africa, 2887t  
 manuring, 1902  
 planting, depth of, 1901  
 spikes, abortion of, 2862  
 storage, 1226, 2159  
 thrips, 877, 927d, 1905-1907  
 virus diseases of, 2863, 2887c  
 weed control, 2563, 3559d  
 "yellows" disease (*Fusarium* sp.), 3873
- Glasshouse—  
 construction, 3115, 3214  
 heating, 5, 1226, 3215  
 illumination—see also Light, artificial—5,  
 3645, 3646  
 irrigation, 2878, 2879  
 nematode control, 531  
 pests, control of, 536  
 plants, physiology of, 2571  
 research, 687 l  
 Res. Stat. Fruit Veg. Cult., Naaldwijk,  
 A.R. 1950, 4134  
 science, a manual on, 2129  
 temperature, effect of material on, 1226
- Gloeosporium—  
 album, 2150  
 concentricum, 1459  
 fructigenum, 352  
 piperatum, 2031  
 rot of apple, 231
- Glomerella cingulata, 2454, 3402, 3456, 4110
- Gloriosa, chromosome numbers of, 3115
- Glucose and fructose separation, 2283r
- Gnomonia leptostyla, 300a
- Gnorimoschema—  
 heliopa, 2784, 2785  
 operculella—see Potato tuber worm and  
 Tobacco leaf miner  
 plaesiosema, 789
- Gold Coast, cacao growing, 1029, 3980
- Goldenrod (*Solidago*) a rubber plant, 820, 821
- Goldfinch, chaffinch, and greenfinch in  
 horticulture, 1509
- Gomesa erectiflora, 1918
- Gomphrena globosa, a virus indicator plant,  
 1758
- Gonipterus sentellatus, 2173
- Gooseberry—  
 breeding, 124  
 Chinese—see Chinese  
 collar-rot (*Phytophthora cactorum*), 1461  
 growing—  
 in Canada, 1434c  
 in England, 3313  
 in New Zealand, 2379  
 layering, 245
- Gooseberry (continued)—  
 machine to remove twigs and leaves from  
 berries, 2379  
 manuring, 2167  
 mildew (*Sphaerotheca mors-uvae*), 246, 3458  
 pollination, 244  
 rust (*Puccinia pringsheimiana*), 1459  
 spray residue on, 426  
 thornless, 124, 2148  
 varieties, 246, 2292
- Gracillaria syringella, 1517
- Grading—see Fruit and individual crops
- Graft union, cytophysiological analysis of,  
 3164
- Graftinarching, 2897
- Grafting—see also Frameworking and individual  
 plants—  
 annual plants, 2578  
 approach, 2578  
 bark, 2174  
 in the cotyledon or early seedling phase, 270,  
 2317  
 fruit trees, 3312s  
 growth substances an aid in, 3340, 3341  
 methods, 155, 1358  
 paraffin wax an aid in, 2392, 2395, 2418d  
 root, 1072  
 stumps, 967  
 transverse or van Herne, 1359  
 vine, Geisenheim method of, 1416  
 wedge, 272
- Grape—see Vine
- Grapefruit—see also Citrus—  
 acorn disease, 968  
 frost damage, 948, 2923, 2924  
 fruit—  
 gumming, 955  
 maturity, 957  
 quality, manuring affects, 956  
 graftinarching, 2897  
 growing in Jamaica, 1964  
 gummosis, Rio Grande, 2933  
 juice composition, 3948, 3949  
 leaf composition, 955  
 manuring, 956, 958  
 oil, 3954, 3963b  
 rootstocks, 2901, 4137  
 "stem-pitting" disease, 971, 973, 974, 2152,  
 2153  
 storage, cool, 1234
- Graphognathus spp., control of, 372, 535
- Grapholitha—  
 molesta—see Fruit moth  
 packardi, 3435, 3438
- Grass—  
 control—see also individual species, 2150  
 mowing in orchards, 1226  
 varieties for orchards, 1228
- Grasshopper—  
 control, 1227, 2091, 2536v  
 as virus vector, 3746
- Great Britain—see also England, Scotland and  
 counties—  
 agricultural periodicals 1681-1900, 2193a



# SUBJECT INDEX

## Great Britain (*continued*)—

- agricultural research, 3145
- agricultural statistics 1946/47, 3124
- apple growing, 2118
- flower growing, 2121
- fruit growing, 4117
- fungi of, 1209
- rainfall in, 4132
- seed quality standards, 2171
- trees and shrubs hardy in 2114
- weed control, 510t

## Greengage pollination, 168

## *Grevillea robusta*, 3896

## Greyback cane beetle control, cost of—*see also* Sugar cane—1162

## *Grifola confluens*, antibiotic from, 400

## Griseofulvin, an antibiotic, 2658

## Groningen agric. Res. Stat. Soil Sci. Inst. T.N.O., A.R. 1949, 4118

## Growth—

- inhibiting substances—*see also below*  
Growth substances and Seed germination, inhibitors of—  
action of, 1285, 1286
- beta methyl umbelliferone, 74
- calcium ions, 70
- canavanine, 109w
- cortisone, 1289
- distribution in plants, 62
- guanazolo, 1289
- from kidney bean seed, 2236
- in maize scutellum, 2283t
- maleic hydrazide—*see also* Herbicides—  
73, 2746
- mannitol, 70
- pteroylglutamic acid, 1289
- in stock seed, 869
- water uptake affected by, 1291
- rhythm of plants, 1331d, 3177
- substances—*see also above*, Growth inhibiting  
substances and Herbicides—  
abscission of pedicels inhibited by—  
*see also below*, leaf and Fruit drop—  
1293
- action of, 1285, 1286, 3187
- algae respond to, 2829
- from apple seed, 3278
- aryloxyalkylcarboxylic acids, 2239
- auxin, 2238, 2283i, 2283m
- for banana ripening, 3971
- bean mosaic virus response to, 2245
- bean plants' response to—*see* Bean
- benzoic acid, substituted, 2241, 3189,  
3228z, 3656
- for bitter pit of apple, 2425
- for blossom thinning, 1390
- for budding, 2169, 2394
- cherry cracking reduced by 2342
- chilli plants' response to, 651
- from coconut milk, 1287
- content of potato, 720
- cotyledons respond to seed treatment with,  
64
- crotch angle widened by, 2362

## Growth—substances (*continued*)—

- for cuttings, 71-73, 153, 269, 288, 903,  
1026, 1224, 1872, 2018, 2020, 2065, 2110,  
2315, 2392, 3085, 3110, 3266, 3833,  
3842, 3897, 4001
- 2, 4-D, 65, 964, 1288, 1300
- for defoliation of trees, 2359
- distribution in plants, 62
- dormancy prolonged by—  
in carrots, 1676
- in onions, 1675, 1676
- in potato—*see* Potato, dormancy
- in rose, 4108
- enzyme activity in potato tubers affected  
by, 3193
- fertility induced<sup>o</sup> by—*see also below*,  
parthenocarpy—  
in aloe, 3839
- in pineapple, 2179
- fertilizer action enhanced by 3648
- flower induction affected by, 2283o
- flowering delayed by, 247, 1221, 1294,  
3293, 3317
- for frost protection, 2343, 3371
- fruit colouring enhanced by 202, 2342
- fruit drop retarded by—*see* Fruit drop
- fruit ripening affected by 202, 208, 288,  
2357
- fruit size increased by, 2921
- for fruit thinning, 198, 200, 201, 2342,  
2346, 2347, 2349, 2350, 3291, 3292
- for grafting, 3340, 3341
- heteroauxin (indoleacetic acid), 67, 68,  
2210, 2283h, 2283i
- and leaf abscission, 964, 2237, 2238
- in leaf extracts, 72
- maleic hydrazide, 247, 921, 1290, 1675,  
1677, 2252, 3317, 3611
- naphthaleneacetic acid, 2283i, 2283m
- Papaver somniferum* response to, 1820
- parthenocarpy induced in—  
currant, 1421
- fig, 1392, 2308, 2344, 2345
- holly, 4108
- pear, 209, 210
- tomato—*see* Tomato
- vine—*see* Vine
- pea plants' response to—*see* Pea
- phenoxycetic acid, substituted—*see also*  
*below*, trichloro—3228z
- phototropic reaction in relation to theory  
of, 43
- in plant protection, 2420, 2425
- pollen tube response to, 2887p
- potato skin colour intensified by, 1752,  
4110, 4111
- radioactive, 82
- from rape seed, 556
- response to treatment measured—*see also*  
*below*, tests—3184
- reviews on, 1200, 2233, 2283d, 3186
- ripening—*see above*, banana and fruit
- for root treatment, 642, 773
- seed treatment with 64, 65, 772, 1682

# SUBJECT INDEX

- Growth—substances (*continued*)—  
 seedlings of vegetables treated with, 539  
 storage quality of fruit affected by, 2158  
 sugar cane response to, 2087, 2088  
 from sweet corn kernels, 3192  
 for sweet potato roots, 642  
 synergistic action of structural analogues, 1284  
 tests, 1331b, 2242, 3185  
 tetronic acids, 3194  
 for thinning fruit—*see above*, fruit  
 for tissue culture, 2262-2265  
 tissue response to, 1263  
 tobacco axillary growth suppressed by, 2758, 4142  
 tomato plants' response to—*see* Tomato  
 translocation of, 1288, 1300, 2235, 3228j  
 2, 4, 5-trichlorophenoxyacetic acid, 202, 208, 964, 2243, 2244, 3298  
 2, 4, 5-trichlorophenoxypropionic acid 210  
 2, 3, 5-tri-iodobenzoic acid, 651  
 urine extract, 3113  
 vine plants' response to, 288-290, 2166  
 vitamin C content affected by, 2250  
 plus vitamin treatment, 3187, 3188  
 water intake affected by, 66  
*Guadua angustifolia*, 2830  
 Guanazolo, a growth inhibitor and virus control by, 1289, 3747  
 Guard cells—*see* Stomatal  
 Guatemala—  
 cinchona growing, 3988  
 essential oil from 1831  
 orange growing, 3922  
 plant diseases in, 1018  
 sugar cane growing, 1097  
 Guava—  
 canning, 2174  
 growing in Venezuela, 2055  
 Mediterranean fruit fly on, 1493  
 tetraploid, 3182  
 vitamin C content, 3182  
 Guayule—  
 cutting back, 3821  
 cuttings, 822  
 etiolation for growth stimulation, 823  
 frost resistance, 3823  
 genetics of, 836d  
*Lygus* injury to, 826  
 nutrition, 825  
 rubber formation and accumulation, 824, 3822  
 rubber, a review of, 820  
*Guignardia*—  
*bidwellii*, 2470  
*camelliae*, 1181, 2107  
*citricarpa*, 3933  
*Guizotia abyssinica*, an oil plant, 2150  
 Gulval exp. Stat., A.R. 1949/50, 2159  
 Gum—  
 chemistry of plant, 3831h  
 phormium, 3831j  
 Gummosis of fruit trees—*see separate species*  
 Gur from sugar cane, 1131, 1170  
*Gymnocladus dioica*, seed germination, 3911  
*Gymnosporangium*—  
*haraeanum*, 1472  
*tremelloides*, 3394  
 Gypsy moth, traps for, 431e  
 \*  
*Halotydeus destructor*, 1653, 1654  
*Halticus bracteatus*, 2780  
 Haploid plants, 768b, 768h  
*Haptoncus luteolus*, 2000  
 Hardiness—*see* Frost resistance  
 Harvard, botanical activities at, 2193c  
 Hawaii—  
 agric. Exp. Stat. biennial Rep. 1948/50, 3110  
 bean growing, 3674n  
 Bell pepper growing, 3674o  
 cobalt content of soils and plants, 2008  
 flower marketing, 3835  
 fruit growing, 1014  
 home freezing in, 1951  
 onion growing, 3674m  
 pineapple growing, 1082  
 Hawthorn juice, vitamin content of Mexican, 2174  
 Hazel—*see also* Cobnut and Filbert—  
*Eriophyes avellanae* on, 1499  
 growing in Italy, 1426  
 Siberian (*Corylus heterophylla*), 3354  
 soil requirements of, 173  
 variety trials in Denmark, 300j  
 Heat—  
 injury to tung, 3961  
 resistance—  
 physiology of, 540  
 of plant cells, 1331i  
 a review on, 3365  
 of tomato, 3647  
 Hedge(s)—  
 fruit trees as, 135, 920, 3232  
 growth control by maleic hydrazide, 921  
 ornamental, 3895  
 plants, 2436  
 rubber, 4028  
*Helianthus*—*see also* Artichoke, Jerusalem, and  
 Sunflower—*macrophyllus* var. *sativus*,  
 a vegetable, 683  
*Helichrysum kilimanjari*, essential oil from, 1828  
 Helicopter—  
 for herbicide application, 454, 462, 1603 l  
 for insecticide application, 1603 l, 2528, 2536a  
*Heliothis* spp., insecticidal plants, 1850, 2832 l  
*Heliothis armigera*—*see also* Sweet corn, corn  
 earworm and Tomato, fruitworm—  
 640, 641, 789, 1617, 1654, 1689, 1690, 3668  
 Hellebore, downy mildew of black, 2851  
*Helminthosporium*—  
*papaveris*, 1821  
 sp. on lawn, 2885  
*turcicum*, 2666

*Helopeltis*—  
*antoni*, 4080a  
 on tea, 4080a, 4114  
*Hemerocallis*, pollen longevity, 878  
*Hemitarsonemus latus*, 3881  
 Hemlock, a noxious weed, 1603j  
 Hemp, Manila (*Musa textilis*)—  
 mosaic, 2056  
 virus spread in, 2006  
 waste, paper from, 3088m  
 Henbit (*Lamium amplexicaule*) control, 3539  
 Henequen (*Agave fourcroydes*) growing in  
 Colombia, 3775  
 Henna, an essential oil plant, 836a  
*Hepialus lupulinus*, 1618  
 Herbicide(s)—*see also individual weeds and  
 crops under weed control*—  
 aeroplane or helicopter for application of,  
 454, 462, 1603l, 1603w  
 Agroxone—*see below*, MCPA  
 allyl alcohol, 1228  
 ammonium phenyl-dithiocarbamate, 439  
 apparatus for applying, 449-453, 455, 1556-  
 1558, 1603p, 1603t, 1603x, 2544, 3495,  
 3547  
 aromatic solvents as, 477  
 for banana destruction, 3972  
 bees' susceptibility to, 172, 448  
 calcium cyanamide, 510h, 1585, 3556  
 2,4-D (=2,4-dichlorophenoxyacetic acid)—  
*see also Growth substances*—  
 amine salts of, 443  
 bees poisoned by, 448  
 chemistry of, 510g  
 decomposition, 510r  
 determination of, 442  
 drift and volatility, 1550  
 dust vs. spray, 510s  
 esters, 510a, 3508, 3511  
 general, 1597, 1598  
 injury to cultivated plants—*see also below*,  
 response—1603g, 2418b, 2418c, 2570b,  
 3541, 3559k  
 for perennial weed control, 444, 461  
 persistence in plant tissues, 502  
 persistence in soil, 1549, 2537, 2538, 3507  
 response of cultivated plants to—*see also  
 above*, injury—441, 480, 3509, 3510  
 reviews on, 510o, 1541, 1546, 1561, 1562  
 translocation, 1547, 1548, 2150, 3504,  
 3509  
 weed susceptibility to, 460, 3497, 3506  
 dichloral urea (Experimental Herbicide No.  
 2), 1551  
 2,4-dichlorophenoxyethyl sulphate (Experi-  
 mental Herbicide No. 1), 1551, 2539,  
 3549, 4135  
 diluents for, 1522  
 dinitro-alkylphenols, 3503  
 dinitro-sec-butyl-phenol, 2562  
 dormant basal, 3559c  
 3,6-endoxohydrophthalates, 1552, 3512  
 ethyl xanthogen disulphide (Sulfasan), 1582  
 evaluation of, 1544, 3500

Herbicide(s) (*continued*)—  
 for hedge growth control, 921  
 in Holland, 305  
 injury to cultivated plants—*see also above*,  
 2,4-D—1594, 1612, 2570b  
 IPPC (=iso-propylphenylcarbamate), 1553,  
 2540, 2550, 3515  
 maleic hydrazide—*see also Growth sub-  
 stances and Growth inhibiting substances*  
 —2561, 3514, 3536, 3537, 3544  
 MCPA (=4-chloro 2 methyl phenoxyacetic  
 acid), 440, 448, 493, 2551, 3506, 3510  
 Methoxone—*see above*, MCPA  
 oil, 445, 446, 1554, 2148, 2566, 3519, 3559g  
 pentachlorophenol—*see also below*, sodium  
 —1555  
 persistence and movement in soil, 510m  
 phytotoxicity of, selective, 3503  
 potassium chlorate, 3517  
 potassium cyanate, 478, 1585, 1603r, 2542,  
 2561, 3527, 3544, 3559b  
 precautions in the use of, 1540q  
 pre-emergence application of—*see below*,  
 soil  
 registration in Canada, 510b  
 reviews on, 432, 437, 438, 510f, 1435, 1541,  
 1545, 2570f, 3495, 3501-3503  
 sodium—  
 arsenite, 3518  
 chlorate, 3559l  
 chloride, 3528, 3550  
 pentachlorophenolate—*see also above*, pen-  
 tachlorophenol—2179, 3516  
 soil application of, 439, 479, 485, 489, 510h,  
 1549, 2537-2539, 2567, 3555-3558, 3559q,  
 3559s, 3559t  
 soil sterilants as, 436, 469  
 2,4,5-T (=2,4,5-trichlorophenoxyacetic acid),  
 510q, 510w, 1559, 1562, 3506, 3508,  
 3511, 3522  
 TCA (=trichloroacetate), 447, 510m, 510q,  
 2543, 2549, 3513, 3523, 3559a  
 translocation of—*see also above*, 2,4-D—  
 3504  
 wetting agents for, 3559o  
 for woody plant control—*see Woody plants*  
 Herbs—  
 aromatic—*see also Oil, essential*—in Hol-  
 land, 3674c  
 harvesting and processing, 836g  
*Heterodera*—  
*göttingiana*, 2624  
*marioni*, 3759, 4114  
*rostochiensis*, 740, 741, 743, 768i, 1772, 1773,  
 1887, 2734, 2735, 2747e  
*schachtii*, 2646  
*Heterosporium gracile*, 1909  
*Hevea*—  
*brasiliensis*—*see Rubber (Hevea)*  
*rigidifolia*, 1089  
*Hibiscus*—  
*esculentus*—*see Okra*  
*rosa-sinensis*, 1950g, 2882  
 Hickory (*Carya* spp.), rootstocks for, 1432



# SUBJECT INDEX

- Hillsborough agric. Res. Inst., N. Ireland  
1949/50, 1244a
- Hippeastrum*, root hairs of, 3874
- Hoary pepperwort control, 465
- Hoing—  
heat conduction in soil affected by, 12  
merit of, 710
- Hoes, Brazilian, 106
- Holland—  
cherry growing, 2295  
horticultural guides to, 2180  
inspection of fruit plants, 1399i  
pea growing, 3674s  
plant protective chemicals, approved, 305  
raspberry certification, 236  
soils of, 4089  
vegetable growing, 1604, 3674c  
walnut growing, 2409
- Holly—  
frost resistance, 3131  
parthenocarpy induced in, 4108  
red spider on, 4135  
selection, 1950c
- Homoeosoma electellum*, 3945
- Honey production of plants, 3228t
- Hong Kong Senior agric. Officer, A.R. 1949/50, 3111
- Hop—  
aphid control, 1225  
bines for paper, 3792  
black root-rot (*Phytophthora* sp.), 1214  
boron deficiency in, 1214, 3785  
breeding, 2815, 3781  
buds, root formation induced in, 1845  
cone—  
composition, 814, 3790  
density, 1225  
morphology, 812  
cuttings, 814, 2817  
downy mildew (*Pseudoperonospora humuli*), 816, 1225, 2817  
drying, 3789  
growing—  
in Belgium, 813  
in New Zealand, 1214, 1221  
in Poland, 2814, 3780  
Inst., nat. Belgian, A.R. 1942/44 and 1948, 1225  
manuring, 1225  
marketing, 836f  
mulching with spent, 2887u  
nutrient requirements, 815  
nutrients, absorption of, 3783  
pest control, 3787  
picking, 2818, 3788  
polyploid, 2815  
propagation—  
from strap-cuts, 2817  
from suckers, 1225  
quality, 2814  
research—  
at Oregon, 3131  
Wye Coll., Kent, A.R. 1950, 4153q  
resin content, 814, 1225, 1848
- Hop (*continued*)—  
a review of work on cultural problems, 2178  
seed germination, 2816  
selection, 3780  
sets, 2817  
sex determination, 1845  
split leaf blotch virus, 3786  
storage, 3791  
subsoil fertility, 3784  
transpiration, 1846  
varieties, 811, 1225, 2818  
*Verticillium* wilt, 1716  
yields, number of vines per hill in relation to, 1847, 3782
- Hoplia-aulica*, 875
- Hoplocampa*—  
*brevis*, 392  
*testudinea*, 2505
- Hormones, plant—*see* Growth substances
- Horseradish—  
antiseptic emanation from, 293  
mosaic, 547
- Horticultural—  
days at Wageningen, 3139  
guides to the Netherlands, 2180  
science, diploma of, 2  
Technology, Wageningen Inst. of, A.R. 1949 and 1944/48, 1226
- Horticulture—*see also* Agriculture—  
in Austria, 3228p  
in England, 2283s, 3229d  
in France, 2283s  
in Queensland, 929, 2007  
in Scandinavia, 2283s  
in Singapore, 892  
in Switzerland, 2283s  
in U.S.A., 3094
- Hotbed—*see also* Frames—  
electric air heating—*see also* Electrical heating—4116  
soils, perennial grasses for, 523
- Humus manure, 524
- Hyacinth—*see also* Bulb(s)—  
bacteriosis, 872  
nematodes in, 1908
- Hyalopterus arundinis*, 2527
- Hydnocarpus laurifolius*, an oil plant, 3137
- Hydrangea—  
blossom bud induction, 3903  
forcing, 1950m  
nutrition, 3904  
a virus disease of, 3905
- Hydrojuglone glucoside in walnuts, 2415-2417
- Hylemyia*—  
*antiqua*—*see* Onion fly  
*brassicæ*—*see* Cabbage root fly  
*cilicrura*, 3596
- Hylobius abietis*, 2488
- Hyoscyamus niger*, polyploid, 796
- Hypothenemus*—*see* Coffee berry borer
- Icerya purchasi*, 1986, 1988
- Idiocerus* sp. on mango, 1075
- Idiopterus nephrolepidus*, 3877

# SUBJECT INDEX

- Ilex cuttings, 2879
- Ilex paraguariensis*, 2110
- Illinois agric. Exp. Stat., Rep. 1938/47, 1947/48 and 1948/50, 4119, 4120, 4121
- Imperata cylindrica*—see Lalang
- Inarching—see also particular plants—graft, 2897
- Incompatibility—see Pollination and individual crops under rootstocks and pollination
- Incurvaria capitella*, 386
- India—see also Madras—
  - aromatic plants, 3763
  - camphor production, 3809
  - citrus fruit juice industry in, 3963h
  - mango growing, 4012
  - potato breeding, 3677
  - rubber growing, 1085
  - Sugarcane Res. Scheme, Madras, A.R. 1947/48, 1223
  - vegetable seed production, 3565
- Indian—
  - agric. Res. Inst., A.R. 1947/48, 3112
  - Coffee Bd, A.R. 1948/49, 3113
  - Council agric. Res., A.R. 1949/50, 4122
  - Tea Ass., Tocklai, A.R. and Proc., 1224, 3114
- Indica* control, 2152
- Indicator plants for soil fertility, 6, 474, 3205
- Indies—
  - roy Inst., Amsterdam, A.R. 1949, 2141
  - tropical Products Lab., Amsterdam, A.R. 1948 and 1949, 1211
- Indo-China, *Carya* and *Annamocarya* spp. in, 3088g
- Indonesia—see also separate islands—
  - A.V.R.O.S. gen. Res. Stat., A.R. 1941/47 and 1948, 4106
  - cacao growing, 2017, 3979
  - C.P.V. Exp. Stat., A.R. 1949, 4114
  - crops for tropical highlands, 2971
  - pepper growing in, 3769
  - pests in, 1199
  - resins of, 3831i
  - rubber growing, 3039, 4026
  - sago palm in, 4018
  - vegetable growing, 3561
  - weed control, 1597, 1598
- I.N.E.A.C.—see Institut national
- Inga* spp. as shade trees, 3010, 4006
- Injectors, soil—see also Fumigation, soil, Manuring fruit trees and Soil—1321
- Insect—see also Pests—populations on fruit trees, estimation of, 2483
- Insecticidal plants—
  - Celastrus angulata*, 818
  - Chinese, 818
  - Croton tiglium*, 3797
  - derris—see Derris
  - Heliopsis* spp., 1850, 28321
  - Lonchocarpus* spp., 817, 2820
  - Millettia pachycarpa*, 818
  - in Puerto Rico, 2819
  - Rhododendron molle*, 818
  - Stellera chaemejasme*, 818
- Insecticidal plants (continued)—
  - Stemona tuberosa*, 818
  - a survey of, 1849
  - Tephrosia vogelii*, 817
  - Tripterygium forrestii*, 818
  - Veratrum nigrum*, 818
  - yam bean (*Pachyrhizus erosus*), 2819
- Insecticides—see Sprays, insecticides
- Institut—
  - Encouragement Rech. sci. Ind. Agric., Brussels (I.R.S.I.A.), A.R. 1950, 4124
  - nat. Étude agron. Congo belge (I.N.E.A.C.), A.R. 1949, 4123
- International agroclimatalogical series, 2192
- Iodine, radioactive, 1299
- Iowa agric. Exp. Stat., A.R. 1948/49, 1227
- Ipomoea*—see also Sweet potato—*caerulea*, 1265
- Iris—see also Bulb(s)—
  - anthocyanin content, 880
  - "blindness", 1896
  - bud sports, 879
  - bulb eelworm, 2864, 2865
  - bulbous, *Reticulata* section, 1950b
  - crown rot, 1896
  - ensata*, 880
  - forcing, 881, 882, 4110
  - germanica* var. *florentina*, 879
  - hot water treatment, 2865
  - leaf spot (*Septoria* and *Heterosporium* spp.), 1909
  - manuring, 1896
  - sibirica* hybrids, 1216
  - storage, 882
  - weed control, 1896
- Iron—
  - content of chloroplasts, 3160
  - content and manuring, 3204
  - deficiency—
    - in blueberry, 3361
    - in cacao, 3980
    - in relation to molybdenum and nitrogen supply, 3674j
    - in snapdragon, 3863
    - in sugar beet, 3674j
  - supply in and uptake from nutrient solutions, 95, 3210
- Irradiation, potato response to X-ray, neutron and gamma, 2715
- Irrigation—
  - apricot, 184
  - avocado, 2179
  - in British Columbia, 183
  - carnation, 3840
  - channels, weed control in, 463, 464, 477
  - citrus, 1961
  - coffee, 1060, 3136
  - cost of, 109j, 183, 3323, 3695
  - and disease incidence, 183
  - and evapotranspiration, 2203
  - fertilizer application with, 1246, 2909, 2911, 3344
  - in France, 2375n
  - for frost protection—see Frost protection

# SUBJECT INDEX

- Irrigation (*continued*)—  
 and fruit quality, 181  
 fruit tree, 181, 2375 l  
 furrow, 1607  
 glasshouse, 2878, 2879  
 orange, 1011c, 3930  
 pipes, polythene, 3219  
 potato, 714, 3695  
 pumping plants, 109p, 1331w  
 research at Merbein, Vict., and Griffith,  
 N.S.W., 2150  
 rose, 897-899  
 siphons for water distribution, 3220  
 sprinkler, 109d, 109j, 183, 1060, 1607, 2148,  
 3221  
 strawberry—*see* Strawberry  
 sugar cane—*see* Sugar cane  
 sweet corn, 639  
 sweet potato, 1227  
 systems, the designing of, 2375m  
 tea, 3076, 4072  
 tomato, 1702  
 vegetables, 1215, 1222, 3109  
 vine—*see* Vine  
 walnut, 1433
- Israel—*see also* Palestine—Mediterranean fruit  
 fly in, 1493
- Italy—  
 azalea growing, 2880  
 citrus growing, 1953, 2968a  
 diseases in, 4107  
 fruit growing, 112,  
 hazel nut growing, 1426  
 insect pests in, 360  
 lavender growing, 1829  
 medicinal plant cultivation in, 1816  
 olive growing, 2286x, 2296  
 peach growing, 1349, 2115, 3312j  
 quince growing, 2291  
 tobacco growing, 3742  
 tomato growing, 2682, 2683  
 vine growing, 256, 261, 262, 2386
- Ivy—  
 leaf, rooting of, 1260  
 poison—*see* Poison
- Jacaranda mimosaeifolia*, 1929
- Jamaica—  
 banana growing, 2979  
 citrus growing, 1964  
 Dep. Agric., A.R. 1948/49, 2164  
 sugar cane growing, 3062, 3088b
- Japan—  
 apple flower bud differentiation in, 2301  
 dwarfed potted trees, culture of, 927y  
 mulberry growing, 1348  
 weed seeds of, 510i, 510j
- Japanese beetle (*Popillia japonica*) control,  
 1232, 1233, 1540c, 2489, 2886, 3427,  
 3914
- Java—*see also* Indonesia—  
 coffee growing, 2111f  
 potato diseases, 2725  
 sugar cane research in, 1098
- Jersey, Colorado beetle in, 3724f
- John Innes hort. Instn. A.R. 1950, 3115
- Johnson grass (*Sorghum halepense*)—  
 control, 443, 445, 497-500, 1575, 3559a  
 strains of, 467
- Juglans*—  
*rupestris*, a walnut rootstock, 2413  
 spp.—*see also* Walnut—frost resistance in,  
 3356
- Juniper cuttings, 2879
- Jute seed, corchorin from, 797
- Juvenile form in fruit trees, 3274
- Kaki (*Diospyros kaki*)—*see* Persimmon
- Kalanchoë*—  
 cultivation, 3855  
*daigremontiana*, organic acid content of leaf,  
 2223
- Kansas—  
 agric. Exp. Stat., bienn. Rep. 1946/48 and  
 1948/50, 3116, 3117  
 fruit growing, 2285
- Karaka nut (*Corynocarpus laevigata*), 2832c
- Karakin from *Corynocarpus laevigata*, 2832c
- Kashmir, *Primula* spp., 3860
- Keiferia lycopersicella*, 2704
- Kelisia* sp. on sugar cane, 1164
- Kentucky agric. Exp. Stat., A.R. 1949, 1228
- Kentville, N.S., Fruit Prod. Lab. and Storage  
 Invest., A.R. 1949/50, 2158
- Kenya—*see also* Molo—  
 coffee growing, 1229, 2111e, 2111n  
 Dep. Agric., A.R. 1948, 1229  
 Senior agric. Officer (Pyrethrum), A.R. 1950,  
 4125
- Sisal Res. Stat., Thika, A.R. 1950, 4126
- Kigelia pinnata*, 1929
- Klosterneuburg hort. Coll. Res. Stat., Rep.  
 1945/50, 4127
- Kok saghyz—  
*Bacterium phytophthorum* on, 829  
 dormancy and protoplasm of root cells, 35  
 growing in Finland, 2823  
 nutrition, 3825, 3826  
 root anatomy, 1852  
 rubber—  
 extraction, 1853  
 formation, 1851, 3824, 3825, 3828  
 a review of, 820
- seed—  
 cleaning, 827  
 germination, 828  
 sowing, 836k  
 soil pH, 3827
- Krym-saghyz, soil pH, 3827
- Kudzu, *Pueraria hirsuta*, 836b, 2832e
- Label, aluminium, 105
- Lactic acid from potato, 768e
- Lactuca pulchella* control, 2546
- Ladders, picking, 1226
- Lagerstroemia indica*, root cuttings, 3264



# SUBJECT INDEX

Lalang grass (*Imperata cylindrica*) control, 2552, 2553, 3518, 3533, 4130

*Laminaria digitata*, alginates and laminarin from, 1864, 2832m

*Lamium amplexicaule* control, 3539

*Lampetia equestris*, 2867

Land clearing in British Columbia, 1331a

Land Settlement Ass., Rep. 1945/50, 4153i

"Lange Ossekampen" central manurial trial ground, A.R. 1947 and 1948, 2165, 3119

Lantana control, 468, 3526

Lausanne vitic. and hort. Res. Stat., A.R. 1949, 2166

*Laphygma*—  
*exigua*, 3668  
*frugiperda*, 534, 687a, 2667

*Lasioderma serricorne*, 2173

*Lasiodiplodia theobromae*, 2973, 3989

*Laspeyresia*—  
*nigricana*, 3594, 3595  
*pomonella*—see Codling moth

Lavender—  
bud sports, 879  
growing in Italy, 1829

Lawn(s)—  
*Antonina indica*, a pest of, 1949  
construction and care of, 3916f, 3916h  
earthworm control, 3913  
grasses, *Cynodon* spp. and others, 1941-1948  
Japanese beetle control, 2886, 3914  
levelling of, 1940  
manuring, 1945, 1947, 1948  
*Sclerotinia* and *Helminthosporium* spp. controlled in, 2885  
in the tropics, 926, 927i  
weed control, 1603h, 1603k, 2542, 3116, 3542-3547, 3559j  
white grub control, 3915

Layering—  
*Antidesma bunius*, 1009  
currant, 245  
gooseberry, 245  
plum rootstocks, 1236  
rhododendron, 922  
vine, 2393

Lay-out of orchards, 120

Leaf(ves)—  
abscission, 964, 2237, 2238  
analysis—see also individual plants—  
of fruit trees, 1217  
a manual on, 4096  
burn, lens effect of raindrops causes, 1448  
carotene estimation in, 2283j  
chlorophyll content, 3161, 3162  
cuttings—see Cuttings  
dimensions, 1354  
extracts, rooting of cuttings promoted by, 72  
morphogenesis, 1265  
rooting of, 1260  
-shape, variation in, 1331n  
vitamin C content and carbohydrate concentration in, 519  
water—  
adhesion to, 59, 3228v

Leaf(ves)—water (*continued*)—  
content of, 58  
loss from stripped, 1283  
movement in, 57  
xeromorphy, 2283w

Leafhoppers—see also hosts and scientific names—as virus vectors, 431t, 785, 2438, 2444, 2655, 2841, 3131

*Lebeckia retamoides*, an insecticidal plant, 817

*Ledum palustre*, essential oil from, 836i, 836j

Leek—  
moth (*Acrolepia assectella*), 1530  
*Phytophthora porri* on, 1459  
(*Urodinychus* sp.) on, 610  
varieties in Denmark, 3674u  
weed control, 3559r

Leeward Islands—  
aloes from, 1817  
Dir. Agric. A.R. 1948, 3120  
pineapple growing, 4080b

Legumes—  
diseases and pests of, 688o  
flowering and fruiting habits, 590  
mycorrhiza formation in, 109b

Leguminosae—  
of the Brazilian Amazon, 2283g  
weed seeds of Japanese, 510i

Lemon—see also Citrus—  
budding, 2899  
cancrosis, bacterial, 1985  
cuttings, 1955, 2912  
frost—  
protection, 949, 950, 3923  
resistance, 1972, 1973  
fruit—  
and leaf drop control, 964  
respiration, 3951  
growing—  
in New Zealand, 3924  
in Russia, 950  
in trenches—see also above, frost protection—3929  
growth substance treatment, 965  
juice composition, 3949  
leaf analysis, 2913  
mal secco disease (*Deuterophoma tracheiphila*), 1981, 1982  
manuring, 1967  
membranosis of fruit, 2950  
nutrition, 2912-2914  
oil, 2832g  
photoperiodic response, 1273  
potash deficiency, 2914  
respiration, 1996  
root—  
growth, 1963  
rot virus, 1976  
as a rootstock, 2895, 2900  
rootstocks for, 3924  
seedlings, shading, 2904  
sieve tube necrosis, 2899  
soil management, 2906  
tetraploid, 2895  
varieties, Frost Eureka, 939

- Lemon (*continued*)—  
 yield, growth substances increase, 965  
 Lemon grass (*Cymbopogon* spp.)—*see* Citron-  
 ella  
 Lentil seed composition, 588  
*Lenzites thermophila*, antibiotic from, 431g  
 Lepage's method of training fruit trees, 3232  
*Lepidiotia frenchi*, 2089  
*Lepidium draba* control, 1566, 2547  
 Lepidoptera of Tunis, 2484  
*Lepidosaphes*—  
*beckii*, 988, 2946  
*ficus*, 2507  
*gloveri*, 2945  
*pinnaeformis*, 2173  
*Leptosphaeria coniothyrium*, 2497  
*Leptosyne maritima*, antibiotic from, 2514  
*Lestes viridis*, 2492  
 Lettuce—  
 aster yellows, 2655  
 big-vein virus, 2656  
 cos, 1725d, 3624  
 crates, 1619  
 damping-off, 1615, 1685, 2662  
 downy mildew (*Bremia lactucae*), 38, 2657  
 grey mould (*Botrytis cinerea*), 2658-2661,  
 3450  
 growth substance injury to, 1612  
 hoeing, 710  
 leaf yellowing in, 632  
 molybdenum deficiency in, 1307  
 mosaic, 633, 687o, 3626  
 nutrition, 1237, 4134  
 phosphorus deficiency in, 3624  
 photoperiodic response, 3173  
 romaine—*see above*, cos  
 spray residue, 3485  
 storage, 3625  
 sugar solution for, 4134  
 transport of, 1619, 1620  
 variety "Brune de Plainpalais", 1725d  
 weed control, 710  
*Leucaena glauca* for coffee cover crops, 1241  
*Leucaspis japonica*, 985  
*Leucinodes elegantalis*, 2703  
*Leucosium* spp. taxonomy, 1914  
 Levulose determination, 23  
*Liatris ligulistylis*, 1950e  
 Library of the U.S. Dep. Agric., a list of  
 periodicals received by the, 2163  
*Licania* spp. as oil plants, 2825  
 Lichens, antibiotics from, 3492f  
 Light—  
 artificial—*see also* Glasshouse illumination—  
 growing plants in, 42, 565, 1236, 1915,  
 3115  
 colour effect on plant growth, 3173  
 and dark-loving phases of day rhythm, 3228b  
*Ligularia hessei*, a hybrid, 866  
*Ligustrum*—*see also* Privet—  
*japonicum*, 1950h  
 spp. in Argentina, 913  
 Lilac—*see also* Syringa—  
 forcing, 4116  
 Lilac (*continued*)—  
 leaf roll, 26  
 oyster-shell scale (*Lepidosaphes ulmi*) on, 915  
 phenological data for, 11  
 powdery mildew, 3906  
 rootstocks, 914, 2322  
 tannin content, 26  
*Lilium*—  
*auratum*, 883  
 hybrids, 883, 884, 1216  
*makinoi*, 883  
 and *Nomocharis* genera compared, 1910  
*speciosum*, 883  
 Lily—  
 arum—*see* Arum  
 breeding, 3916k  
 bulb storage, 1216  
 Easter—  
*Colletotrichum* spp. on, 2887o  
 leaf burn of, 3871  
 forcing, 886  
 growing in England, 927g  
 nematodes in, 3838  
*Nopoiulus venustus* on, 4108  
 pollen storage, 883  
 polyembryony, 3916n  
 propagation by scales, 885  
 ringspot virus, 838  
 rosette virus, 2866  
 storage—*see also above*, bulb—of cut, 843  
 tetraploid, 4110  
 Lime—*see also* Citrus—  
 fruit bud differentiation, 963  
 fruit size, growth substance increases, 2921  
 growing in Trinidad, 1957  
 rootstocks, 944  
 wither-tip, 1957  
 Liming—*see also* Calcium—  
 orchard soils, 4135  
 sugar cane, 1124  
*Limnanthes*, embryo-sac development in the  
 genus, 2887n  
*Linaria vulgaris* control, 2547  
*Lippia*, taxonomy of, 1938  
*Liriodendron tulipifera*, growth habit, 917  
*Liriomyza pusilla*, 2681  
*Listroderes obliquus*, 533, 789, 1616, 3109  
 Litchi—  
 blossom-bud formation, 2957  
 cultivation, 2956  
 marcottage of, 3110  
 Lithium toxicity in citrus, 2918, 3963a  
*Lithocolletis crataegella*, 3439  
*Lobelia cardinalis*, haustoria in, 2852  
 Locust control, 2976, 3491, 3919  
 Loganberry, rubus stunt, 1452  
*Lonchocarpus*, an insecticidal plant, 817, 2820  
 Long Ashton—  
 agric. hort. Res. Stat., A.R. 1950, 4128  
 sunshine at, 3228i  
*Lonicera alberti*, flower structure of, 3907  
*Lophira* seed fats, 2832h  
 Loquat, flower bud differentiation, 148  
*Loranthus* spp. on shea butter tree, 2974

# SUBJECT INDEX

Low Temp. Invest., Storage Lab., Ottawa,  
A.R. 1949, 2158

*Luffa*—

*amara*, crystalline bitter from, 2832d

*cylindrica* growing in Surinam, 3793

Lupin foot rot (*Pythium* spp.), 2887s

*Lupinus*—

*arboreus*, a medicinal plant, 798

*pilosus*, a forage plant, 817

*polyphyllus*, biology of, 1890

*Lychnis alba* control, 2546

*Lycium ferocissimum* control, 3528

*Lycopersicon* spp.—see under Tomato, breeding

*Lycopodium* spp., lycopodine from, 836 l

*Lygus*—

*campestris*, 3577

*hesperus*, 826

*oblineatus*, 559, 625, 3423, 3770, 3771

*pratensis*, 747

*Lyonetia clerkella*, 382

Lysenko—see Genetics, Soviet

*Maba inconstans*, 3918

Macadamia nut—

growing—

in California, 2966

in Hawaii, 1014

in New Zealand, 3956

oil from, 1184

seed germination, 1009

Macaulay Inst. Soil Res., A.R. 1949/50, 2167

Machines—see also Tractor, Herbicides, ap-

paratus and Sprays, apparatus—

for apple grading, 4110

farm, 1215, 2139, 3226

for fertilizer distribution—see Fertilizer

for fibre scraping, 1069

for fruit—

dumping, 2276

grading, 219-221, 1226

washing, 992

for gooseberry cleaning, 2379

for hop picking, 3788

for the nursery, 103, 1319, 2268

for onion harvesting, 1679

for potato planting, 708

for raspberry picking, 3318

for seed—

disinfection, 1330

and fungicide mixing, 107

for shredding pruning wood, 1320

for soil—

cultivation, 234f, 3218, 3312p

mixing, 1326

for sugar cane, 1146-1148, 1150, 4056

for tobacco planting, 3734

for transplanting, 518, 1229, 1327, 2269

*Macroductylus subspinosus* control, 1928

*Macrophomina phaseoli*, 3724i

*Macrosiphoniella sanborni*, 3852

*Macrosiphum*—

*pelargonii*, 3388

*pisi*, 2626

*Macrosporium cucumerinum*, 567

*Macrosteles divisus*, 1775, 2655

Madagascar—

coffee growing, 1064, 1187k

diseases in, 3088c

sisal growing, 3831c, 3831m

tung oil production, 3963c

verbenaceous plants of, 1938

Madras Presidency agric. Stats, A.R. 1947/48,  
3121

Magnesium—

deficiency—

in apple, 176, 313, 2334

in blueberries, 314

in fruit trees, 3364, 3394

in pear, 2334

and photoperiodism, 3206

in sugar cane, 1124

in sweet potato, 2674

in tung, 2964

xanthophyll and carotene loss caused by,  
92

estimation, 1256, 2206, 2207, 2212, 2283p,  
3158

in soil, plant growth and, 3228d

Magnoliaceae, taxonomy of, 2883

Magnolias—

in Argentina, 916

in Asia and U.S.A., 1934

cuttings of, 2879

*Mahonia* spp., neprotine from, 1870b

Maine—

agric. Exp. Stat., A.R. 1949/50, 2168

fruit varieties, 2375h

Maize—see also Sweet corn—

chlorophyll formation in seedling, 1270

flower development and morphology, 638

polyembryony, 3916n

roots, growth rhythm of, 1331m

scutellum, growth inhibiting substance in,  
2283t

seed germination, 40

spray residue, removal of, 428

Malaya—

agricultural—

machines in, 1187d

statistics 1947 and 1948, 1244b, 1244e

cacao growing, 2059, 2985-2987, 3105

Dep. Agric., A.R. 1949, 4129

fern studies, 3916p

oil palm growing in, 2059

Rubber Res. Inst., Report 1941/45 and  
1945/48, 2169, 4130

vegetable variety trials in, 515

Maleic hydrazide—see Growth substances

*Maleuterpes spinipes*, 3944

Malic acid, 109c, 3303

*Malus*—see also *Pyrus* and Apple breeding and

Apple rootstocks—

*baccata*, 1363

*florentina*, 2322

hybrids, ornamental, 1216

*prunifolia*, 3257

*toringoides*, 2322

*Mammea americana*, an insecticidal plant, 2819



- Mandarin—*see also* Tangerine—  
*Cytosporina citriperda* on, 994  
 frost resistance, 1972, 1973  
 juice composition, 994  
 leaf analysis, 3929  
 rootstocks, 1959, 3121
- Manganese—  
 deficiency—  
   in apple, 1439  
   in bean, 3588  
   in fruit trees, 4135  
   in patchouli, 685  
   in peach, 1221  
   in raspberry, 3394  
   in sisal, 3024  
 determination, 1256, 3157  
 and “marsh spot” of pea, 1237  
 oxidation, 1237  
 toxicity, 3207, 4118
- Mango—  
 anthracnose, 932  
 beetle (*Rhytidodera simulans*), 2057  
 breeding, 1070, 1071  
 budding, 1073  
 classification, 1203  
 double working, 1072  
 frame working, 4014  
 frost damage, 1071  
 fruit—  
   composition, 1076  
   “tip pulp” of, 1077  
 girdling, 4013  
 grafting, 1072, 1073  
 growing in India, 4012  
 hopper (*Idiocerus* sp.) control, 1075  
 inarching, 1072, 1074  
 manuring, 1071, 3025  
 necrosis, 4122  
 root grafting, 1072  
 rootstocks, 1071, 1072  
 scab, 1071  
 selection, 1070, 1071  
 urea foliage sprays for, 1071  
 varieties, descriptions of, 4122  
 weevil (*Cryptorhynchus mangiferae*), 3110
- Mangosteen—  
 growing in Indo-China, 1185  
 rootstocks, 3121
- Manihot utilisima*, cassava, 2154
- Manila—  
 grass (*Zoysia matrella*) for tropical lawns, 926, 927i  
 hemp—*see* Hemp
- Manitoba Crops, Livestock, Rep. 1950, 4153j
- Manuals on—  
 alpine plants, 3095, 3099  
 anatomy of dicotyledons, 1202  
 apple biochemistry and apple products, 1206  
 biochemistry, 1189  
 botany—*see also below*, medical, 1204  
 Bromeliaceae, 1207  
 cacao, 1196  
 chrysanthemum cultivation, 4091  
 citrus entomology, 3090
- Manuals on (*continued*)—  
 cork oak growing, 2130  
 dahlia culture, 1207  
 evolution in plants, 2133  
 fertilizers, 2124  
 flower growing, 2121, 2127, 3092, 4099  
 fruit growing, 2113, 4086, 4093  
 fungus physiology, 2123  
 gardening, 2117, 4090  
 gentians, 2135  
 glasshouses, 2129  
 leaf analysis, 4096  
 mango classification, 1203  
 medical botany, 4097  
 Mesembryanthemaceae, 4094  
 mushroom growing, 1188, 2125  
 olive growing, 119  
 ornamental plants, 2136  
 peach growing, 2115  
 perennials for the garden, 1195, 4153n  
 plant diseases, 2134  
 potato growing, 4101  
 pruning, 4085  
 rose culture, 1207  
 rubber plants, temperate, 4102  
 statistical design, 4087  
 stone fruit, 4084  
 subtropical entomology, 1194  
 violets, 2138  
 virus diseases, 1190, 2132, 4100  
 viticulture, 1192
- Manure—  
 green—*see also* Cover crops—crops, seed  
   production of, 2093  
 humus, 524  
 liquid, Chinese method of applying, 892
- Manuring—*see also* Fertilizer(s) and under  
*particular crops and nutrients*—  
 with dunder, 1126  
 effect on plant, 7  
 with filter mud, 1123, 1127  
 fruit trees—  
   by application in shallow pits round the  
   tree, 186  
   by foliage sprays, 188, 189, 1071, 1231-  
   1233, 1387, 3280, 4113, 4136  
   general, 185, 234k, 1208, 2165, 2330, 2333,  
   2375a, 3119, 3281  
   leaf and/or root composition a guide to,  
   1217, 4113  
   by soil injection, 187, 188, 1208, 1217, 2333  
   by stem injection, 188  
 lawn, 1945, 1947, 1948  
 organic, composition of crop not affected by,  
   3204  
 tropical crops, 1012  
 vegetables, 524, 687m, 2375a, 2579, 2580,  
   4139
- Maple, sugar—*see* Sugar maple
- Marasmius*—  
*pernicius*, 1032  
*semius*, 2986  
*stenophyllus*, 1022  
*urens*, antibiotic from, 1331o

# SUBJECT INDEX

- Margaronia caesalis*, 2109  
 Marketing—*see also particular crops*—flowers, 3916q  
*Marmor cucumeris*, 2056  
 Maroochy Experiment Station, Queensland, 3964  
 Marrow, vegetable—*see also Squash and Cucurbits*—  
   root rot (*Thielaviopsis basicola*), 2608  
   seed production, 566  
 Massachusetts agric. Exp. Stat., A.R. 1949/1950, 4131  
*Matthiola*—*see Stock*  
 Mauritius—  
   fibre industry of, 4098  
   sugar cane—  
     growing, 2075, 4080f  
     Res. Stat., A.R. 1949, 3122  
   tea growing, 2095  
   tobacco growing, 1798  
*Mauritius flexuosa*, oil from, 1081  
*Maximiliana* spp., oil-bearing palms, 1081, 4104  
 Mealybug(s)—*see also hosts and scientific names*—  
   parasites of the comstock, 2003c  
   slugs feeding on, 1894  
   as virus vectors, 2024-2026  
 Measurement of trees, instruments for, 3228r  
*Meconopsis* hybrids, 3916u  
 Medicinal plants—  
   aloe, 1817  
   *Ammi majus*, 1818  
   *Atropa belladonna*, 796, 4116  
   in Australia, 2150  
   *Berberis aristata*, 1819  
   camphor basil—*see Camphor*  
   castor bean—*see Castor bean*  
   *Cephaelis acuminata*, 3795  
   cola nut, 3796  
   colchicine treatment of, 796  
   *Corchorus olitorius*, 797  
   *Coumarouna* spp., 1843, 1844  
   *Courbonia virgata*, 1870f  
   *Datura stramonium*, 796  
   *Dicentra eximia*, 1870j  
   *Dichroa febrifuga*, 3798  
   *Digitalis purpurea*, 796  
   *Duboisia* spp., 2150  
   *Emblica officinalis*, 3799  
   *Ephedra* spp., 3800  
   growing—  
     in Holland, 3674c  
     in Italy, 1816  
   *Hyoscyamus niger*, 796  
   *Luffa amara*, 2832d  
   *Lupinus arboreus*, 798  
   *Nux vomica*, 3831k  
   *Papaver*—  
     *rheas*, 3801  
     *somniferum*—*see also Poppy, opium*—  
       1820-1822, 2150  
   from the Philippines, 3794  
   *Phyllanthus emblica*, 3799  
   *Pluchea sagittalis*, 1823  
   Medicinal plants (*continued*)—  
     in Spain, 3831d  
     *Strophanthus* spp., 799, 2150, 2795-2799  
     *Strychnos pilosperma*, 800  
     *Trichilia glabra*, 1937  
     *valerian*, 4116  
     *Veratrum viride*, 1824  
   Medlar varieties, 3244  
   *Melaleuca alternifolia*, an oil plant, 3831b  
   *Melastoma malabathricum* control, 3533  
   *Melia azedarach* response to, 2,4-D, 502  
   *Melittia cucurbitae*, 1639, 1640  
   *Meloidogyne* spp.—  
     on peach, 3407  
     on tobacco, 2782, 2783  
   *Melolontha*—*see Cockchafer*  
   Melon—*see also Cantaloupe and Cucurbits*—  
     aphid (*Aphis gossypii*), 1638  
     fly (*Dacus cucurbitae*), 3110, 3669  
     fruit, toxicity of, 3603  
     *Fusarium* wilt, 1222, 1685, 2603, 2708o,  
       2709a, 3605, 3606  
     growing—  
       in Illinois, 2602  
       in South Africa, 562  
     manuring, 1227, 3606  
     musk—  
       *Fusarium* resistance, 2603  
       grafting, 2603  
       growing in U.S.A., 3604  
     pollination, 564  
     seed production, hybrid, 564  
     water—  
       diseases of, 567  
       *Fusarium* wilt of, 1222, 2708o, 2709a, 3605  
       growing in South Africa, 562  
       manuring, 1227  
       seed testing, 687u  
       a seedless, 563  
       variety Chilena No. 1, 3607  
   Mendoza exp. Stat., Argentina, 127, 128  
   Menthofuran from peppermint oil, 1870c  
   Mercury injury to plants, 887, 3228w  
   *Merendera* spp., colchicine from, 77  
   *Merodon equestris*, 888, 3875  
   Mesembryanthemaceae, a monograph on, 4094  
   Mesquite (*Prosopis juliflora*), 508, 510c  
   *Metatetranychus ulmi*—*see Paratetranychus pilosus* and Red spider  
   Meteorological—  
     advice for growers, 13  
     records for sugar cane, 1132  
   Meteorology—*see also Climate and Weather*—  
     agricultural, 11-14, 2192  
   Michigan agric. Exp. Stat., A.R. 1949/50, 4153k  
   Micromanipulators, 2280, 3225  
   Microorganisms—*see also Soil*—and plant growth, 2194  
   Microphotographs, 3229b  
   Micropipette for measuring virus inoculum, 3223  
   Microtome knives, the sharpening of, 2281  
   Mičurin, 125, 129, 259, 264, 3150

# SUBJECT INDEX

- Milletia pachycarpa*, an insecticidal plant, 818
- Mimosa—  
*Fusarium*-resistant, 1935  
*pudica* control, 3533
- Mineola vaccinii*, 3435
- Mineral—  
 content of air and rain, 1254  
 deficiency—*see* Deficiency, mineral
- Minor element(s)—*see also* particular elements  
*and crops*—  
 deficiency in fruit trees, 1313, 2916, 3492j  
 estimation, *Aspergillus niger* used in, 1256,  
 2206, 2283p  
 glassy frits to supply, 3361, 3863
- Mint—*see also* Peppermint and Spearmint—  
 growing in Italy, 2810  
 oil, essential, 3806  
 weed control, 2150
- Missouri agric. Exp. Stat., A.R. 1948/49, 4133
- Mistletoe—  
 control, 2150  
 distribution, 2554  
 on pear, 2555
- Mites—*see* scientific names, hosts and Red  
 spider
- Mitteilungen der höheren Bundeslehr- und  
 Versuchsanstalten für Wein- Obst- und  
 Gartenbau, Wien-Klosterneuburg und für  
 Bienen-Kunde, Wien-Grinzing*, a new  
 periodical, 4152
- Molo hort. Stat., Kenya, A.R. 1950, 3118
- Molybdenum—  
 deficiency—  
   in broccoli, 2600  
   in cauliflower—*see* Cauliflower  
   in coffee, 1026  
   in lettuce, 1307  
   and vitamin C content, 1611  
 estimation, 1256, 2206, 2213, 2283p  
 in lettuce nutrition, 1237  
 and "marsh spot" of pea, 1237  
 supply and iron deficiency, 3674j
- Momordica cochinchinensis*, carotene content  
 of, 2611
- Monalonium* sp. on cacao, 3975
- Monarda fistulosa*, bergamot oil from, 1870g
- Monilia*—*see also* *Sclerotinia*—  
*cinerea*, 2517  
*fructigena*, 2456
- Monilinia*—  
*fructicola*, 2466  
*laxa*, 407
- Monilochaetes infusans*, 3638
- Monocotyledons, tissue culture of, 2261
- Monstera deliciosa*, 2009
- Morden, Manitoba, Fruit and Veg. Prod. Lab.,  
 A.R. 1949/50, 2158
- Morocco, citrus growing, 2893
- Moroga unipunctata*, 2584
- Morus* spp.—*see also* Mulberry—growth-pro-  
 moting and growth-inhibiting sub-  
 stances in, 62, 63
- Moths—*see also* scientific names and hosts—  
 night-flying, 3437
- Mouse control—*see also* Rodent—1510, 3447,  
 4147
- Mower—*see also* Machines—repairs and  
 adjustments, 3228s
- Mozambique, tobacco growing, 3731
- Mucilages, chemistry of plant, 3831h
- Mucuna*, flower structure, 3916o
- Muguga, E. Africa, Res. Stat., 2154
- Mulberry—*see also* *Morus*—  
 composition of tree, 1385  
 fungi in lenticels, 1471  
 growing—  
   in Costa Rica, 118  
   in Japan, 1348  
   leaf composition, 1399m  
   virosis, 1454
- Mulch, sod, 309
- Mulching—  
 with aluminium foil, 2582  
 apple, 309, 2332  
 cherry, 2339  
 coffee—*see* Coffee  
 compost, soil cultivation replaced by, 1205  
 cucumber, 521, 1608  
 with maize cobs, 2887g, 3891  
 materials and soil acidity, 522  
 with paper, 1608  
 peach, 359  
 pepper, 1608  
 plum, 1446  
 rose, 899, 2887g, 3891  
 with sawdust, 253, 2383, 4147  
 sisal, 4126  
 with spent hops, 2887u  
 sprouting broccoli, 521  
 strawberries, 253, 2383  
 sweet corn, 521  
 tomato, 521, 1608  
 tung, 1004  
 vegetables, 2582
- Murrumbidgee Irrigation Area, 185, 190
- Musa*—*see also* Banana and Hemp, manila—  
*borneensis*, 2111c  
*gracilis*, 2111c  
*paradisiaca*, 1021  
*sanguinea*, 1021  
 tetraploid, 1021  
*violascens*, 2111c
- Mushroom (*Psalliota* spp.)—  
 bacterial pit, 3125  
 beds—  
   disinfection of, 3608, 3609  
   types of, 2630  
 cropping, duration of, 1663  
 disease control, 1669, 1670, 3125  
 diseases, La France and Vern Astley, 1668  
 growing—  
   in Belgium, 600  
   economics of, 600  
   in England, 1188, 2629  
   manuals on, 1188, 2125  
   house, types of, 1662, 2630  
   media for growing, 1664, 1665, 1666, 2630,  
   3125, 4110



# SUBJECT INDEX

- Mushroom (*continued*)—  
 pest control, 603, 1670  
 phenol oxidases of the, 687w  
*Psalliota arvensis* as an invader, 2152  
 Res. Stat., Yaxley, Peterborough, A.R. 1950, 3125  
*Science*, a new periodical, 2190  
 soil requirements, 1667  
*Sporendonema* sp. on, 3125  
*Verticillium* wilt of, 602  
 white plaster mould (*Scopulariopsis* sp.) on, 601  
 wild forms of, 607  
 Mushroom other than *Psalliota*, 604-606, 608, 1600, 1601  
 Mustard—  
 anthracnose leafspot (*Colletotrichum* spp.), 548  
 Chinese (*Brassica juncea*), 2811  
 control of wild, 1588  
 Mycorrhiza—  
 biology of, 1248, 2126  
 endotrophic, 1331k  
 of fruit trees, 3284  
 in leguminous plants, 109b  
 in orchids, 894  
*Mycosphaerella*—  
*cucumis*, 567  
*fragariae*, 356  
*musicola*, 2979  
*sentina*, 3403  
 Myrobalan as a rootstock, 2315, 3252, 3262  
*Myroxylon pereira*, Peru balsam from, 3766  
 Myrrh-agalloch, 3768  
*Myxosporella schini*, 3902  
*Myzodes latysiphon*, 2587  
*Myzus*—  
*convolvuli*, 2591  
*ornatus*, 3388  
*persicae*, 363, 688 l, 838, 1540r, 1725n, 1759, 1761, 2722, 2780, 3621, 3757, 3758  
*solani*, 3877  
 Naaldwijk Res. Stat. Fruit Veg. Cult. under Glass, A.R. 1950, 4134  
*Nadezhdiella cantori*, 983  
*Napomyza lateralis*, 631  
 Narcissus—*see also* Daffodil and Bulb(s)—  
 bulb—  
 curing, 1896  
 fly (*Lampetia equestris*), 2867  
 storage, 2159  
 flies (*Merodon*, *Eumerus* spp.), 888, 3875  
 forcing, 4110  
*Fusarium* basal rot, 887  
 leaf scorch (*Stagonospora* sp.), 1912  
 mercury injury to, 887  
*Sclerotium gladioli* on, 1911  
 Nasturtium—  
 aphid control, 1657  
 mosaic, 927o  
 virus diseases, 838  
 National Fruit Trials, England, Rep. 1921-50, 3240  
 Nebraska agric. Exp. Stat., A.R. 1949, 3127  
 Nectar secretion, 1376  
 Nectarine—  
 brown rot (*Sclerotinia fructicola*), 1475  
 fumigation, 2329  
 growing in Tasmania, 1340  
 rootstocks, 1362  
 varieties, Philp and Mabel, 144  
*Nectria galligena*—*see* Apple canker  
 Nematode(s)—  
 in banana, 1022  
 in bean, 1771, 3601  
 in beetroot, 2646, 3569  
 in boxwood, 909  
 in cherry, 1479  
 in chrysanthemum—*see* Chrysanthemum  
 in cinchona, 2990  
 in citrus, 943, 2968b, 3934  
 in coffee, 3017  
 control—  
 by D.D., 1725f  
 in glasshouses, 531  
 by parathion, 862, 863, 1930, 3759  
 by systox spray (E-1059), 2735  
 in cucurbits, 3602  
 in flower crops, 3838  
 in *Hippeastrum*, 3874  
 in horticultural crops, a review, 530  
 in hyacinth, 1908  
 in iris bulbs, 2864, 2865  
 in olive, 431b  
 in pea, 1771, 2624  
 in peach, 359, 3407, 4110  
 in pepper, 2708k  
 in potato—*see* Potato  
 in spinach, 2646  
 in strawberry, 1480  
 in sweet corn, 3569  
 in tea, 4114  
 in tobacco—*see* Tobacco  
 in tulip, 872  
 in vegetables, 1222  
*Neofabraea malicorticis*, 1462  
*Nepeta mussinii* and *N. × Faassenii*, 867  
*Nephelium lappaceum*, rambutan tree, 3086  
 Neprotine from *Mahonia* spp., 1870b  
 Netherlands—*see* Holland  
 Nettle control, 1572, 1603q  
 New Guinea, tea growing, 4066  
 New Jersey agric. Exp. Stat., A.R. 1948/49 and 1949/50, 1231, 4135  
 New South Wales—  
 apple varieties, 116  
 Insect Pest Survey 1948/50, 4153g  
 New York St. agric. Exp. Stat., A.R. 1948, 1949 and 1950, 1232, 1233, 4136  
 New Zealand—  
 codling moth in, 3493a  
 Dep. Agric., Hort. Div., A.R. 1949/50, 1234  
 D.S.I.R., A.R. 1949/50, 1221  
 flax (*Phormium tenax*), a fibre plant, 3131, 3776, 3777  
 flax, gum from, 3831j  
 fruit growing, 117, 1346

# SUBJECT INDEX

- New Zealand (*continued*)—  
 gooseberry growing, 2379  
 lemon growing, 3924  
 macadamia nut growing, 3956  
 pests and diseases of fruit trees, 3492i  
 poisonous plants of, 3499  
*Nezara viridula*, 599, 1653  
*Nicotiana*—  
*affinis* grafting, 1875  
 alkaloids—*see also* Tobacco—780, 781,  
 1799, 3730, 3762d  
 cytogenetic studies on, 4113  
*glauca*, 781, 3112, 3730  
*glutinosa*, 780, 781  
*longiflora*, 2776, 2777  
*rustica*, 1815d, 2259, 3735  
*sylvestris*, 780  
 virus 10, 3112  
 Nicotine—*see* Tobacco  
 Nigeria—  
 agric. Dep., A.R. 1949/50, 4137  
 cacao growing, 1030  
 tonka bean growing, 1844  
 Nikitskii botanical garden, 4  
 Nipah palm, paper from, 2802  
 Nitrate, Chilean, 1610  
 Nitrogen—*see also* Ammonia, anhydrous  
*and Urea and separate crops under*  
*manuring*—  
 content in plants, 31  
 deficiency—  
 in sugar cane, 4055  
 in tobacco, 3738  
 in walnut, 1433  
 economy of tropical soil, 3968  
 foliage sprays—*see also* Urea—1387  
 isotopic, 2753  
 metabolism in plants, 69, 94, 775, 2221,  
 3229j  
 supply and iron deficiency, 3674j  
 Nomenclature, botanical, 1  
 Nomilin and obacunone from citrus seed oil,  
 3963g  
*Nomocharis* spp., a description of, 1910  
*Nopoiulus venustus*, 4108  
 Nornicotine, 780, 781, 1799, 3762d  
 Northern Ireland, fruit growing, 114, 115  
 Northern Nut Growers' Ass.—*see* Nut(s)  
 Norway—  
 frost damage in, 3367, 3368  
 fruit growing, 3312t, 3312u  
 Nova Scotia Fruit Growers' Ass., A.R. 1949  
 and 1950, 1235, 3129  
 Nursery—  
 machinery, 103, 1319, 2268  
 minor element deficiency in, 3492j  
 soil sickness in, 2423  
 trees, wax emulsion for coating, 3263  
 weed control, 2564  
 white grub control, 1928  
 Nut(s)—*see also individual species*—  
 frost damage to, 1428, 1444  
 Growers' Ass., Northern, Proc. 1948 and  
 1949, 2175, 3128  
 Nut(s) (*continued*)—  
 growing in U.S.A., 2175  
 shells, composition of, 3229a  
 sugar content of, 2076  
 Nutgrass (*Cyperus* spp.) control, 445, 469-471,  
 2152, 3533  
 Nutmeg, fruit drop, 2812  
 Nutrient(s)—  
 absorption and transport of inorganic, 3200,  
 3228j  
 removal from tree crowns by rain, 2204  
 solutions—*see also* Soilless culture—  
 aeration of, 2283b  
 iron supply in, 3210  
 pH of, 3209  
 preparation of, 3228a  
 Nutrition—*see also individual plants under*  
*nutrition*—  
 conference on, 2144  
 as an electrical phenomenon, 3201  
 of fruit crops, mineral, 87  
 the role of mineral elements in, 3203  
*Nux vomica*, a medicinal plant, 3831k  
 Nyasaland—  
 coffee growing, 2111g  
 Dep. Agric., A.R. 1948 Pt. II and 1950, 2176,  
 3130  
 tea growing, 1187i  
 tung growing, 2002  
 Oak, cork, 2130  
 Oat—*see also Avena*—control of wild, 510n  
 Oceania, French—  
 pandanus growing, 1833  
 useful plants of, 2970  
*Ocimum* spp.—*see* Camphor  
*Oecophylla smaragdina*, 1019  
*Oenothera organensis*, 3181  
*Oidium*—*see also under hosts*—  
*heveae*, 1218, 2070, 2072  
*matthiolae*, 350  
*nephelii*, 3086  
*tabaci*, 2774  
*Oiketicus kirbyi*, 1504  
 Oil—  
 avocado, 3920  
 castor, 3132, 3812  
 coconut, 2991  
 crops in U.S.A., 2824  
 essential—  
*Acacia farnesiana*, 801  
 bergamot, 1870g, 3802  
*Bulnesia sarmienti*, 3831a  
 camphor—*see* Camphor  
 citronella—*see* Citronella  
 citrus, 996, 3954, 3963b, 3963e  
 content of withering plants, 3802  
*Dipterocarpus indicus*, 1870h  
 eucalyptus, 3802, 3803  
 geranium, 803, 1827  
 from Guatemala, 1831  
 from *Helichrysum kilimanjari*, 1828  
 henna, 836a

# SUBJECT INDEX

- Oil—essential (*continued*)—
  - lavender, 1829
  - Ledum palustre*, 836i, 836j
  - lemon, 2832g
  - lemon grass—*see* Citronella
  - majoram, 3805
  - mint, 3806
  - orange, 995, 2832g, 3954
  - peppermint, 804, 805, 1870c
  - a review, 2832f
  - rosemary, 1830
  - Schizandra chinensis*, 923
  - tissues yielding, 1832
  - vetivert, Indian, 3810, 3811
- grape seed, 295
- Macadamia ternifolia*, 1184
- okra seed, 3815
- olive, 197, 3482
- palm—*see* Palm oil
- palm genera—
  - Acrocomia*, 4104
  - Astrocaryum*, 1081
  - Elaeis* spp.—
    - Armillaria* root rot, 2060
    - Coelaenomenodera* sp. on, 2061
    - cytology, 2058
    - flower and fruit development, 1078
    - forest clearing for, 3028
    - Fusarium oxysporum* on, 1079, 3029
  - growing—
    - in French Africa, 4080 i
    - in Malaya, 2059
    - in Sumatra, 3026
    - in Venezuela, 4015
  - investigations—
    - in Malaya, 2059, 4129
    - in Nigeria, 4137
  - manuring, 1237
  - nurseries, 3027
  - pollination, 2058
  - selection, 2059, 3026
  - soil pH requirements, 2059
  - transpiration, 4123
  - transplanting, 2059
  - varieties *dura*, *pisifera* and *tenera*, 2058
- Mauritius flexuosa*, 1081
- Maximiliana* spp., 1081, 4104
- plants—
  - in Africa, cultivation of, 831
  - Aleurites* spp.—*see also* Tung—3137
  - Bauhinia esculenta*, 1855
  - Brassica juncea*, 2811
  - castor bean—*see* Castor
  - Cucumis utilissimus*, 3814
  - Cucurbita pepo oleifera*, 561
  - Guizotia abyssinica*, 2150
  - Hydnocarpus laurifolius*, 3137
  - Licania* spp., 2825
  - Lophira* spp., 2832h
  - Melaleuca alternifolia*, 3813b
  - olive—*see* Olive
  - Papaver somniferum*—*see also* Poppy, opium—3816, 3817
  - Oil—plants (*continued*)—
    - Parinarium glaberrimum*, 832
    - Pentaclethra* spp., 2832h
    - pests and diseases of, 2974
    - radish, 3817
    - safflower—*see* Safflower
    - Sapium* spp., 2827
    - Sesamum orientale*, 1860
    - sunflower, 1861, 1862
    - Thevetia nerifolia*, 833
    - tomato, 3674q
    - tung—*see* Tung
    - Xanthium strumarium*, 1863
    - yam bean (*Pachyrhizus erosus*), 2826
- safflower—*see also* Safflower—3132
- sesame, 3819
- spearmint, 2832a
- stillingia, 2827
- tobacco seed, 795c
- from weed seed screenings, 836e
- Xanthium riparium*, 3820
- Okra (*Hibiscus esculentus*)—
  - Cercospora malayensis* on, 1721
  - extract for gur clarification, 1170
  - growing in Guatemala, 1725a
  - seed oil, 3815
  - variety Emerald, 684
- Olive—
  - calcium requirements, 1388
  - cuttings, 153
  - flower differentiation and structure, 149, 2309
  - fly (*Dacus oleae*), 376, 377, 2296, 2494-2496, 3482
  - fruit set, 207
  - girdling, 2310, 3290
  - grafting, 2174
  - growing—
    - in Argentina, 1333
    - in Italy, 119, 2288, 2296
    - a manual on, 119
    - in Spain, 1399h
  - history of, 3312k
  - manuring, 234h
  - nematodes in, 431b
  - oil, 197, 3482
  - partial paralysis, a virus disease, 1455
  - pickling, 3311
  - pollination, 1375
  - propagation, 1399k
  - pruning, 234h, 3289, 3312 i
  - rootstocks, 1369
  - salt tolerance, 1389
  - scale insect control, 1508
  - seed germination, 154
  - as a shade tree, 2297
  - spray residue on, 3482
  - sun burn, 951
  - trees, restoration of old, 234i
  - tuberculosis (*Pseudomonas savastanoi*), 344, 3391
  - varieties, 197, 3245
- Omphalia flavida*, 1050, 3016
- Oncopeltus fasciatus*, 687u



# SUBJECT INDEX

## Onion—

- antibiotic from, 626
  - bolting, 1671
  - colchicine treatment of, 1295
  - composition, 615, 2633, 3612
  - copper deficiency, 1674
  - cytoplasm accumulation in cells, 2635
  - diseases, 613
  - dormancy prolonged by growth substances, 1675, 1676
  - downy mildew, 614, 2637
  - fly (*Hylemyia antiqua*), 687s, 2639, 2640, 3614, 4135
  - frost damage to flower, 520
  - growing—
    - in Africa, 1671
    - in Costa Rica, 611
    - in Hawaii, 3674m
  - harvester, the Bruner, 1679
  - manuring, 2634
  - neck rot (*Botrytis*), 2636
  - a perennial, multi-umbellate Altai, 2633
  - pest control, 3568
  - photoperiodic reaction of, 1672
  - pollination, 1725p
  - respiration—*see also below*, root—3611
  - root—
    - growth inhibition by growth substance, 1677
    - respiration, 3610, 3674y
    - rot, white (*Sclerotium cepivorum*), 1678
  - seed production, 520, 612, 617, 1725o, 2632, 4110
  - selection, 512
  - smut, 2638
  - sowing in the autumn, 688f
  - spacing, 1671
  - storage, 512, 615, 616, 1220, 1675, 1676
  - thrips, 1231, 2641-2643, 3615, 2183
  - transplanting, 1671
  - variety Texas Grano, 2142, 2631
  - weed control, 453, 479, 482, 2561, 3101, 3553-3555, 3559r
  - Welsh (*Allium fistulosum*), 1673
  - yellow mottling, 3613
- Oospora pustulans*, 1459
- "Operational research", 8
- Ophiomyia pinguis*, 631
- Opuntia*—
- ficus-indica*, 1010
  - megacantha* control, 1568, 1569k, 2173
- Orange—*see also below*
- Citrus—
- ant control, 2890
  - black rot (*Alternaria citri*), 2968c
  - black spot (*Phoma citricarpa*), 3933
  - bug, bronze (*Rhoecocoris* sp.), 982
  - cetoniid injury to, 1484
  - Clementine—*see* Tangerine
  - copper deficiency, 952
  - cover crops, 3926
  - cuttings, 2912
  - frost damage, 948, 2924
  - fruit—
    - colour—*see below*, storage

## Orange—fruit (*continued*)—

- composition—*see also below*, juice, 2919, 3349
  - drop, growth, substances, control, 1969, 1970, 4110
  - size, factors affecting, 954, 1960
  - grafting, 967, 2898
  - green mould (*Penicillium digitatum*), 2951
  - growing—
    - in Guatemala, 3922
    - in Jamaica, 1964
  - gummosis, Rio Grande, 2933
  - irrigation, 1011c, 3930
  - Joppa, 2968f
  - juice—
    - composition, 961, 1965, 1966, 3948, 3949
    - off-flavour, insecticides cause, 989
    - vitamin C content, 1966
  - Khasi (*Citrus reticulata* or *C. chrysocarpa*), 4122
  - leaf abscission, 1971
  - leaf analysis, 959, 960, 2907, 2908, 2913, 2915, 3948
  - manuring, 952, 954, 959, 1965, 1966, 1977, 2915, 3926
  - Nagpur santra (*C. suntara*), 1954
  - nutrition, 2912, 2913, 2917
  - oil, 995, 2832g, 3954
  - packing, cost of, 1995
  - pectinesterase, 1011b
  - peel industry, 995
  - phosphate deficiency, 3927
  - pruning, 966, 3927
  - purple scale and rust mite control, 988
  - Pyroderces rileyi* on, 2941
  - root rot virus, 1974
  - rootstocks—*see also below*, sour and tri-
    - foliate, 942, 1959, 1960, 1974, 2898
  - seed germination, soil fungi affect, 977
  - seedless varieties, 938, 2003e
  - sour—
    - cuttings, 941
    - nematode resistance of, 943
    - as a rootstock, 1974, 1976, 2895
  - stem end rot (*Phomopsis citri*), 2951
  - stem-pitting virus, 973
  - storage—
    - cold, 4110
    - colour development in, 991, 2174, 3950
    - respiration in, 1996, 3950
    - rots, 993, 2951, 2968c
    - wraps, 2174
  - tetraploid, 2895
  - tortrix (*Argyrotaenia citrana*), 2941
  - trifoliolate—
    - frost resistance of, 937
    - as a hedge plant, 920
    - as a rootstock, 2902, 3924
  - varieties, 938, 2003e
  - verrucosis (*Elsinoe fawcetti*), 2931
  - vitamin C content, 2919
  - xyloporosis, 1977
  - zinc deficiency, 2915
- Orasema aenea*, 3391

# SUBJECT INDEX

- Orchard(s)—  
 cover crops, 2285  
 grass varieties for, 1228  
 lay-out, 120, 3312u  
 soil—  
   cultivation, machines for, 3312p  
   management, 174, 175, 234f, 234k, 1399b,  
   2330, 2375f
- Orchid(s)—  
 cultivation in England, 3878  
 fungus-inhibiting secretion of, 1920  
 growing in Singapore, 892  
 mosaic, 3879  
 mycorrhiza, 894  
 of North America, 4088  
*Phytophthora* sp. control, 1919  
*Spathoglottis*, 3110  
*Orchis militaris*, 1920  
 Oregon agric. Exp. Stat., A.R. 1949/50, 3131  
 Organ arrangement in the plant kingdom,  
 1331h
- Organic—  
 acid—  
   of the apple fruit, 3304  
   content of leaf tissue, 2223  
   metabolism, 3166  
 compounds—see also particular compounds—  
 1331u
- Origanum majorana*, essential oil from, 3805
- Ornamental—  
 plants—see also below, shrubs—  
   of Argentina, 1871  
   cuttings of, 1872  
   fasciation in, 839  
   a manual on, 2136  
   polyploid, 2838, 3183  
   storage of, 841  
   white root rot (*Corticium galactinum*) of,  
   2834  
   in Zanzibar and Pemba, 2136  
 shrubs and trees—see also above, plants,  
   Shrubs and Trees—  
   cuttings of, 3897  
   defoliation by chemicals, 3898  
   in the Mediterranean region, 1950a  
   pest control, 1222, 2119, 3912  
   propagation of, 1925, 2878, 2879  
   seed cleaning, 2877  
   in U.S.A., 2875  
   woody vines in U.S.A., 2875
- Orobanche muteli*, 472
- Osmotic—  
 pressure of xerophytic plants, 1279  
 quantities in plant cells, 3228u
- Osmunda cinnamomea*, tissue culture of, 2260  
*Otiorrhynchus sulcatus*, 1236, 2861
- Overseas Food Corp. Sci. Dep., A.R. 1948/49,  
 3132
- Ovularia canaegricola*, 830
- Oxalate content of leaves, calcium, 868
- Oxalis tuberosa*, 3673
- Oxygen requirement of roots, 900
- Oxytenanthera abyssinica*, cellulose from, 834
- Oxythyrea funesta*, 1484
- Oyster nut (*Telfairia pedata*), 2160, 3672
- Ozognathus cornutus*, 2892
- Pachyrhizus*—see Yam
- Packing—see also individual crops—  
 fruit, 2375g  
 shed, construction of, 217  
 vegetables, 1619
- Palestine—see also Israel—flora of, 1245
- Palm oil—see also Oil palm—  
 carotene in, 1187e, 1187p  
 composition, 1187a  
 from different *Elaeis* spp., 4016  
 extraction, 1080  
 stearols of, 3031  
 storage, 3030
- Palm(s)—  
 distribution and uses of, 4017  
 sago, 4018  
 trees in U.S.A., 1998
- Palmettos, control of 510q
- Panagrolaimus* spp. on tobacco, 792
- Pandanus tectorius* var. *laevis*, a fibre plant,  
 1833
- Pandemis pyrusana*, 2502
- Pansy—  
 diseases, 3916c  
 tetraploid, 868
- Pantomorus godmani*, 2942
- Papain, production, 4080m
- Papaver*—  
*nudicaule*, polyploid, 3834  
*rhoeas*, a medicinal plant, 3801  
*somniferum*—see Poppy, opium
- Papaw (*Carica papaya*)—  
 damping off, 2010  
 fruit rot (*Ascochyta caricae*), 4021  
 growing—  
   in Hawaii, 1014  
   in Pacific Islands, 4080m  
 mosaic, 1187b, 4020  
 nutrition, 2142  
 packing, 2009  
 pectin from, 2063  
 ripening, 2179  
 sex and seedling growth, 4019  
 stem structure, 2062
- Paper—  
 from hop bines, 3792  
 from Manila hemp waste, 3088m  
 from Nipah palm, 2802
- Paprika—see Pepper, red
- Papularia arundinis*, 1870k
- Paraguay, *Capsicum* spp. of, 3674k
- Paratetranychus*—see also Red Spider—  
*bioculatus*, 3081  
*citri*, 3939, 3940  
*pilosus*, 379, 1497, 1498, 1524, 1540m, 2478,  
 2479, 2481, 3408, 3473  
*simplex*, 2000  
*ununguis*, 3413  
*urticae*, 3473  
*yothersi*, 933

- Paratoxoptera argentinensis*, 1974, 1975  
*Parinarium glaberrimum*, an oil plant, 832  
*Parkia africana*, an insecticidal plant, 817  
*Parlatoria*—  
     *oleae*, 1508  
     *ziziphi*, 2944  
*Parmentiera cerifera*, 1929  
Parsley—  
     forcing, 3674v  
     weed control, 476, 3519  
Parsnip—  
     seed storage, 627  
     thinning, 2648  
*Parthenium argentatum*—see Guayule  
Parthenocarp—  
     induced—see Growth substance(s)  
     in pears, 3276, 3277  
Passion fruit—  
     amylopectin in, 2958  
     frost resistance, 1009  
     mosaic, 1000  
Patchouli, manganese deficiency, 685  
Patulin (clavatin), an antibiotic, 402  
Pea—  
     aphid control, 1656, 2626, 3593, 4119  
     bean virus 2—see also below, Wisconsin—  
         2708j, 3674h  
     bird damage, 2509  
     breeding, 1643  
     canning—see also below, varieties—3586  
     cotyledons, plants raised from, 64  
     a crinkled variant, 2612  
     damping off (*Pythium* and *Rhizoctonia* spp.)  
         595, 1651, 4118  
     DDT effect on, 1646  
     diseases in Tasmania, 3590  
     enation mosaic, 1647  
     exudate, 1292  
     *Fusarium* wilt or root rot, 594, 4118  
     graft hybrids, 1643  
     growing—  
         in Canada, 572  
         in France, 3585  
         in Holland and Belgium, 3674s  
     growth—  
         ascorbic acid effect on, 2221  
         substance effect on, 480, 2234, 2249, 3171  
         3172  
     *Heliothis armigera* on, 1617  
     indoleacetic acid oxidase in, 2283h  
     leaf and pod spot (*Ascochyta pisi*), 1649,  
         1650  
     manuring, 584, 585, 1237, 2168  
     marsh spot, 1237  
     maturity tests, 3586  
     mosaic, 1647  
     moth (*Laspeyresia nigricana*), 3594, 3595  
     nematodes in, 1771, 2624  
     nitrogen metabolism of stem tissue, 69  
     nodule development, 3174  
     pest control, 1653, 3719  
     *Pisum virus I*, 3591  
     polyploid, 574, 575  
     quality and yield, seed maturity affects, 1644  
     Pea (continued)—  
         root—  
             cell development, 1261, 2220  
             growth and indoleacetic acid, 67, 68  
             rot, 594  
             starch synthesis in, 2224  
             volatile organic substances absorbed by,  
                 39  
         seed—  
             composition, 588, 2617  
             disinfection, 2614  
             maturity and age, quality and yield  
                 affected by, 1644  
             soaking injury to, 581  
             sowing, 583, 1226  
     *Septoria* blotch, 1652  
     soiless culture, 1315  
     starch and amylose determination, 587  
     storage, frozen pack, 687b  
     temperature sums for, 1233, 2177  
     tissue cultures, 67, 69, 70  
     varieties—  
         for canning, 572, 573, 687y, 1227, 3585  
         for freezing, 2158  
         the improvement of, 3096  
     vitamin A content, 687b  
     vitamin C content, 623, 687b  
     volatile constituents of, 3674i  
     weed control, 480, 1580, 1583, 1587, 1588,  
         3556, 3559p  
     weevil (*Sitona lineata*), 1530  
     Wisconsin bean virus 2—see also above,  
         bean—2708j, 3674h  
Peach—  
     anthracnose (*Glomerella cingulata*), 3402  
     aphid, green—see *Myzus persicae*  
     *Aspidiotus forbesi* on, 394  
     bacterial spot, 2450, 4135  
     bee injury to, 3440  
     blossom blight and brown rot (*Sclerotinia*  
         *fruticola*), 353, 1473, 1475, 2466  
     blossom thinning, 3291  
     boron deficiency, 312  
     breeding, 2174  
     canning, 1339, 1360, 2177  
     cat-facing and dimpling of, 3423  
     cetoniid injury to, 1484  
     composition of tree—see also below, leaf, 191,  
         192, 194  
     cover crops, 179, 180  
     delayed foliation—see also below, flowering,  
         325, 2174, 2431, 2432  
     *Diaspis pentagona* on, 2508  
     disease control, 1232, 1540u  
     drying, 3309  
     embryo culture of, 3249  
     flavour of canned, insecticides affect, 2177  
     flowering, insufficient chilling delays, 3373  
     forcing, 1341  
     frameworking, 2319  
     frost damage, 2428  
     frost resistance, 319, 4113  
     fruit—  
         drop, spraying to retard, 2356



Peach—fruit (*continued*)—  
 fly (*Pterandrus rosa*), 2173  
 pigments, 2311  
 size, 1355, 1360  
 thinning, 2350  
 growing—*see also below*, varieties—  
 in England, 1338, 4084  
 in Italy, 1349, 2115, 3312j  
 a manual on, 2115  
 in the Murrumbidgee Irrigation Area,  
 1339  
 in Tasmania, 1340  
 in U.S.A., 2289  
 growth—  
 replanting on former tree site retards,  
 2422  
 and soil moisture, 182  
 leaf—  
 area, 1354  
 composition, 1221  
 curl (*Taphrina deformans*), 353  
 glands and wettability, 2312  
 photosynthesis of, 3117  
 pigments, 2311  
 leptonecrosis, 1441  
 manganese deficiency, 1221  
 marketing, 234t  
 maturity—*see also below*, ripening—testing,  
 4119  
 Mediterranean fruit fly on, 1492, 1493  
 mildew (*Sphaerotheca pannosa*), 2166  
 mineral deficiency, 1231  
 mulching, 359  
 nematodes in, 359, 3407, 4110  
 nitrogen manuring, 2337  
 nutrition, 192, 194  
 pest control, 1540u  
 phloem anatomy, 3312q  
 phony disease, 2536n  
 plum curculio on, 1489, 3109, 3423, 3424  
 pollination, 3247  
 pruning, 215, 4146  
 red spider, 4135  
 ring-spot virus, 335  
 ripening—*see also above*, maturity—growth  
 substances hasten, 208, 2357  
 as a rootstock for plums, 3261  
 rootstocks—  
 dwarfing, 1362  
*Prunus davidiana*, 151  
 -scion compatibility, 3251  
 seedling, 194  
 rosette with willow-shaped leaf, a new virus,  
 3386  
 rust (*Puccinia prunispinosae*), 353  
 scab (*Cladosporium carpophilum*), 353,  
 1459  
 silver leaf, non-parasitic, 2428  
 soil management, 180  
 soil moisture and tree growth, 182  
 spray injury to, 3487  
 spray, residue, 1535, 1537, 3481  
 starch content of shoot, 191  
 storage, 2174

Peach (*continued*)—  
 tree borer (*Sanninoidea exitiosa*), 387, 3109,  
 4136  
 varieties—*see also above*, growing—  
 in Canada, 2148  
 C. Capucci selections, 2298  
 Hale, 1349  
 Madame Evreinoff, 2299, 3243  
 in New Zealand, 1346  
 in South Africa, 2142  
 vitamin C content, 196  
 weed control, 488, 1220  
 western X-disease, 332, 336, 337, 431t,  
 2444, 2445  
 Pear—  
 black-end disease, 307  
 blight, bacterial—*see below*, fireblight  
 blossom thinning, 2342, 3291  
 blossom, *Tropinota hirta* a pest of, 371  
 breeding, 124, 2166, 2174, 2451  
 bud—  
 mite (*Eriophyes piri*), 2477  
 opening, growth substances delay, 3293  
 sports, 3246  
 buprestid beetle on, 303  
 canning, 3306  
 cell-wall xylan, 3312f  
 codling moth control, 384, 430  
 composition of tree, 191, 192  
 consumption in U.S.A., 2365  
 copper deficiency, 3362  
 cork spot, 2342  
 crown gall, 1457  
 cuttings, 1361  
 delayed foliation, 150  
 disease control, 1232  
 drying, 2374, 3118  
 earwig (*Forficula auricularia*) control, 373  
*Epidiaspis leperii* on, 1507  
 fireblight, 1370, 2451, 3135, 4109  
 flowering, growth substances delay, 3293  
 frameworking, 2318  
 frost damage to blossom, 211  
 frost protection of blossom, 322  
 fruit—  
 drop, spraying or dusting to retard, 211,  
 2342, 2353-2355, 2358, 3296, 3297  
 fly control, 2174  
 malformation of, 3276  
 swelling of, 2302  
 thinning, 2302  
 grading, 221  
 growing—*see also below*, varieties—in  
 England, 234j  
 growth of tree and soil moisture, 182  
 hard-end disease, 308, 2342  
 Kieffer (*Pyrus pyrifolia* × *P. communis*), 2374  
 leaf fleck (*Mycosphaerella sentina*), 2467,  
 3403  
 magnesium deficiency, 2334  
 manuring, 3280  
 Mediterranean fruit fly control, 375  
 midge, 4136  
 mistletoe on, 2555

# SUBJECT INDEX

- Pear (*continued*)—  
 mycorrhiza of wild, 3284  
 nectar secretion, 1376  
 nutrition, 192  
 packing, 221, 3300  
 parthenocarpy, natural and induced, 209,  
 210, 3276, 3277  
 pollination, 2327  
 potassium deficiency, 2334, 2335  
 psylla, 2504, 2527  
 red spider, 3408, 3411  
 ripening—*see also below*, storage—growth  
 substances hasten, 2357  
 root pruning, 216  
 rootstocks—  
 in Australia, 2150  
 and black-end incidence, 307  
 blight resistant, 1370  
*Crataegus mexicana*, 162  
 Old Home, 3135  
 Pillnitz clone, 3258  
*Pyrus*—  
*betulifolia*, 3258  
*calleryana*, 2150  
*serotina*, 307  
 quince, 1362, 1399 I, 3259, 3260  
 -scion compatibility, 3251, 3259  
 seedling, 1370, 3252, 3312s  
 rust (*Gymnosporangium haraeaeum*), 1472  
 sawfly (*Hoplocampa brevis*), 392, 3442  
 scab control, 349, 3395  
 scab germination, parathion inhibits, 2526  
 scion rooting, 3260  
 scorch, 2535  
 seed germination, 2314  
 seed storage, 1356  
 slugworm (*Caliroa limacina*), 393  
 soil moisture and tree growth, 182  
 spindle bush, 213  
 spray injury to, 429, 430, 2535  
 starch content of shoot, 191  
 stony pit, 3385  
 storage—  
 air purification in 232  
 in cellar, 2166  
 cold, 2174, 2368  
 dips, 3263  
 in England, 234d  
 frozen pack, 3306  
 gas, 230, 233, 2369  
 pests, 2488  
 ripening in, 4110  
 volatile production in, 233  
 wraps, 221  
 tit and wasp damage to, 397  
 tree borer, sinuate (*Agrilus sinuatus*), 2487,  
 3428, 4112  
 twig sawfly (*Cephus compressus*), 1506  
 varieties—  
 Bartlett, 233, 308  
 Conference, 2369  
 late keeping, 234r  
 Madernassa, 234a  
 Passe Crassane, 216, 1351
- Pear—varieties (*continued*)—  
 in Russia, 1342, 1350  
 in Sweden, 3242  
 wild Caucasian (*Pyrus caucasica*), 3312g  
 zinc deficiency, 315, 1256, 2426  
 Peat for azaleas, 1227  
 Peat in horticulture, 1950d  
 Pecan—  
 cover crops, 1222  
 drying, 1427  
 growing—  
 in North Africa, 296  
 in U.S.A., 1434e, 2407  
 harvesting, 2183  
 nut casebearer (*Acrobasis caryae*), 388  
 pest control, 1222  
 scab (*Cladosporium effusum*), 300d  
 tree thinning, 2408  
 weevil (*Curculio caryae*), 1487, 3109  
 Pectic substances of tomato, 1708  
 Pectin—  
 from *Crataegus pubescens*, 1337  
 from papaw and *Phyllanthus emblica*, 2063  
 Pectinesterase—  
 in cucumber and tomato, 3579  
 orange, 1011b  
*Pegomya hyoscyami*, 1686  
*Pelargonium*—*see also* Geranium—*capitatum*,  
 essential oil from, 1827  
*Pellicularia*—  
*filamentosa*, 1089  
*koleroga*, 3113  
*Pemphigus spirothecae*, 1517  
*Penicillium*—  
*digitatum*, 2951, 3952  
*frequentans*, frequentin from, 2513  
*italicum*, 3457  
*nigricans* and *P. griseofulvum*, griseofulvin  
 from, 2658  
 Pennsylvania agric. Exp. Stat., A.R. 1949/50,  
 2177  
*Pentaclethra* seed fats, 2832h  
*Pentalonia nigronervosa*, 2015  
*Pentatrachopus fragariae*, 1482  
*Penthaleus major*, 1654  
*Pentodon idiota*, 4061  
 Peony—  
 breeding, 2853  
 culture, 1950 I  
 tree (*Paeonia lutea*), 918, 3908  
 Pepper—  
 black (*Piper*)—  
 diseases of, 810  
 growing—  
 in India, 810  
 in Indonesia, 3769  
 red (*Capsicum*)—  
 biology of, 1694  
 blossom-end rot, 687v  
*Colletotrichum multosetorum* on, 652  
 fruit colour of, 650  
 grafting, 2678  
 growing in Hawaii, 3674o  
 growth substance effect on, 651

# SUBJECT INDEX

- Pepper—red (*continued*)—  
 leaf miner, serpentine (*Liriomyza pusilla*), 2681  
 mildew (*Phytophthora capsici*), 836m  
 mosaic, 688b  
 mulching, 1608  
 nematodes in, 2708k  
 soft rot (*Erwinia carotovora*), 653  
 variety Perfection, 2680  
 viruses in California, 2708n  
 weevil control, 688p
- Peppermint—*see also* Mint and Spearmint—  
 growing—  
   in Canada, 804  
   in U.S.A., 804, 805  
 oil, 1870c  
 production, economics of, 805  
 rust (*Puccinia menthae*), 1459  
*Verticillium* wilt, 3807
- Perennials—  
 for the garden, manuals on, 1195, 4153n  
 for Pennsylvania gardens, 927q
- Perileucoptera coffeella*, 1066
- Perilla* spp., photoperiodic reaction of, 46-50, 109r, 109x, 1274-1276, 2226
- Periodicals—  
 at the library of the U.S. Dep. Agric., 2163  
 a list of foreign, 1244d  
 new, 1243, 2190, 3142, 3143
- Periwinkle crown gall, 2283n, 2854
- Permeability, a review on, 3229g
- Peronoplasmodium cubensis*, 567, 568, 2583
- Peronospora—  
*cubensis*, 569, 1637  
*jaipiana*, 686  
*nivea*, 1631  
*pulveracea*, 2851  
*tabacina*, 2583, 3755
- Peroxidase, 687t, 1278, 2283h, 3709
- Persicaria coccinea* control, 2546
- Persimmon (*Diospyros kaki*)—  
 brown sooty mould (*Phaeosaccardionula javanica*), 1011g  
 composition of tree, 191  
 growing—  
   in Argentina, 3918  
   in U.S.A., 2959  
 growth of seedling and soil moisture, 182  
 pollination, 2960  
 rootstocks, 1001  
 starch content of shoot, 191  
 storage, 2174
- Peru—  
 cinchona growing, 2988  
 fruit growing, 110
- Pest(s)—*see also* individual pests and hosts—  
 of brassicas, 1626  
 control—*see also* Sprays, insecticides—  
   biological, 388, 981, 984, 985, 1159, 1161, 1167, 1199, 1214, 1241, 1482, 1504, 1616, 1618, 1894, 1986, 1988, 2003c, 2587, 2708w, 2968d, 2968e, 3072, 3129, 3137, 3459-3462, 3884, 3919, 3935, 3936, 3938, 3940, 3942, 3946, 3963d  
   by birds, 1509, 1780, 1781  
   in fruit, 302, 304, 1540s, 2536r  
   of garden, 687z  
   in Germany, 3469  
   in glasshouses, 536  
   on ornamental and shade trees, 3912  
   a review, 431j  
   traps for, 431e  
   in vegetables, 532, 2585, 3567  
   in woody ornamentals, 1222  
   in Denmark, 3359  
   of flowers and shrubs, 2119  
   in Indonesia, 1199  
   in Italy, 360  
   in New South Wales, 4153g  
   in New Zealand, fruit, 3492i  
   in the Wallis and Futuna Islands, 2975
- Petiole, growth promoting and growth-inhibiting substances in, 63
- Petunia—  
 double-flowered, 846  
 grafting, 1875  
 hybrids, 3856  
 pollen tubes, growth of, 2887p  
 pollination, 1891  
 variety Balcon bernois, 1950f  
*violacea*, 1891
- pH meter, a portable, 3222
- Phaeosaccardionula javanica*, 1011g
- Phalaenopsis amabilis*, propagation of, 893
- Phaseolus virus* 1 and 2—*see also* Bean mosaic—3592
- Phenological—  
 data, 11, 13, 14, 274, 3135, 4116, 4134  
 Service in Germany, 11
- Phenology of Central Europe, 109t
- Philadelphus, evolution of garden, 3916 l
- Philippines—  
 agriculture, 2006  
 cinchona growing, 3987  
 Dep. Agric. Natural Resources, A.R. 1948/49, 4138  
 medicinal plants from, 3794  
 onion seed production, 2632  
 tobacco growing, 1815e  
 vanilla growing, 2813
- Phloem, movement of materials in, 56
- Phlox paniculata*, a virus disease of, 838
- Phoenix rugosa*, a fibre plant, 1834
- Phoma*—  
*apiicola*, 1631  
*araliae* var. *microspora*, 680  
*citricarpa*, 2153, 3933  
*foveata*, 1459  
*lingam*, 549
- Phomopsis*—  
*citri*, 979, 2951  
*dauci*, 2650  
 sp. on eggplant, 1222, 3671
- Phoradendron flavescens*—*see* Mistletoe
- Phorid* spp., on mushroom, 603
- Phormium tenax*—*see* New Zealand flax



# SUBJECT INDEX

- Phosphate—*see also* Phosphorus and individual crops under manuring—  
 nutrition, 94  
 silico-, 4139  
 uptake of, 93, 95
- Phosphatases in coconut, 2994
- Phosphorilase in isolated plastids, 768q
- Phosphorus—*see also* Phosphate—  
 deficiency—  
   in lettuce, 3624  
   in orange, 3927  
   stinkwort an indication of, 474  
 radioactive, 81, 84, 86, 281, 1297, 1301, 1748, 1749, 1804, 2148, 2256, 3196, 3197, 3771  
 soil test, 2691
- Photography—  
 a close-up framer for horticultural, 108  
 of orchard trees, 2279
- Photoperiodism—*see also* individual plants—  
 and flowering hormones, 109x  
 and glasshouse illumination, 5  
 growth reactions to, 3228g  
 light and darkness periods in, 109f  
 magnesium deficiency and, 3206  
 of perennial plants, 3228h  
 wave length of light affects, 1272-1274
- Photosynthesis, 5, 85, 109c, 1277, 2225, 2228, 2229, 3117, 3165-3167, 3228k
- Phototropism, 43, 44, 1268, 3169
- Phragmidium subcorticium*, 1236
- Phthorimaea*—*see* *Gnorimoschema*
- Phylacteophaga eucalypti*, 2584
- Phyllanthus emblica*, a medicinal plant and a source of pectin, 2063, 3799
- Phyllocoptes* spp. on vine, 3416, 3472, 3473
- Phyllocoptruta oleivora*, 988, 2946
- Phyllophaga* spp., control, 1928
- Phyllotreta undulata*, 2589
- Phylloxera*—*see* Vine, phylloxera
- Physalospora*—  
*obtusa*, 2455, 3401  
*rhodina*, 567  
*tucumanensis*, 4058
- Phytolacca octandra* control, 466
- Phytophthora*—  
*boehmeriae*, 1459  
*cactorum*, 1461, 2882  
*capsici*, 836m  
*cinnamomi*, 3036, 3037  
*citrophthora*, 1978-1980, 2934  
*cryptogea*, 676, 1888  
*erythroseptica*, 876  
*fragariae*—*see* Strawberry, red core  
*infestans*—*see* Potato blight and Tomato blight  
*palmivora*, 3140  
*parasitica*, 676, 1842, 2700  
*porri*, 1459  
*quininea*, 2988  
*richardiae*, 1897  
 root rot of citrus—*see* Citrus gummosis  
 spp.—  
   on citrus seedlings, 2935
- Phytophthora*—spp. (continued)—  
 on hop, 1214  
 on orchids, 1919  
 on safflower, 1859
- Phytotron, uses of, 3216
- Pieris*—  
*brassicae*, 1629  
*rapae*—*see* Cabbage, white butterfly
- Pigments, biochemistry of natural, 3229e
- Piliostigma thonningii*, edible pods from, 1182
- Pimiento—*see* Pepper, red
- Pine needles, antibiotic from, 626
- Pineapple—  
 bacterial fruitlet brown rot (*Erwinia ananas*), 2067  
 breakdown, physiological, 3035  
 cuttings, 2065  
 flowering induced, 2179  
 growing—  
   in the Belgium Congo, 2064  
   in Hawaii, 1082  
   in the Leeward Islands, 4080b  
   in South Africa, 2142  
 gummosis (*Batrachedra mathesoni*), 3038  
 manuring, 3032, 3033  
 maturity tests, 3034  
 nutrition, 2066  
*Phytophthora cinnamomi* on, 3036, 3037  
 variety Cayenne, 4022  
 weed control, 492, 2179
- Pinus*—  
*caribaea*, oleo-resin from, 2805  
*radiata* for shelter belts, 117
- Piper*—*see also* Pepper—*betle*, 1842
- Pipes, polythene, for irrigation and spraying, 3219
- Piqueria trinervia*, photoperiodic response, 2855
- Pirus*—*see* *Pyrus*
- Pistachio* rootstocks, 2967
- Pisum*—*see also* Pea—*Virus I*, 3591
- Pittier, selected works of, 2131
- Plant—  
 import regulations of various countries, 109u  
 pathology, a bibliography of tropical, 3970
- Plantain—*see also* Banana—"rayadilla"  
 disease, 2013-2015
- Plantation crops in El Salvador, 1016
- Planting—*see also* particular crops—  
 contour, 1053, 2903, 3357e  
 fruit trees, explosives for, 2273
- Plasmodium viticola*, 1477, 1478, 3466
- Plastic materials in horticulture, 2278
- Pleospora herbarum*, 3635
- Pluchea*—  
*lanceolata* control, 510v  
*sagittalis*, a medicinal plant, 1823
- Plum—*see also* Prune—  
 aphids, 2527, 3421, 3492s  
 bacterial canker, 345  
 bacterial-spot (*Xanthomonas pruni*), 3392  
 black-knot disease, 4109  
 blossom thinning, 3291  
*Brachycaudus* spp. control, 1517

# SUBJECT INDEX

- Plum (*continued*)—  
 breeding, 124  
 brown rot, 355, 407  
 canning, 3306  
 cherry-, 355  
 chlorosis, infectious, 2174  
 crotch angle widened, 2362  
 curculio (*Conotrachelus nenuphar*)—*see also*  
   Peach—control, 1232, 1488, 1489, 2177  
 cuttings, 1361  
*Cydia funebrana* control, 390  
 delayed foliation, 3118  
 drying, 3118  
 frost resistance, 320  
 fruit drop, spraying or dusting to retard,  
   3297  
 growing—  
   in California, 2375i  
   in Canada, 2290  
 manuring, 3280  
 mulching, 1446  
 nitrogen and carbohydrate metabolism of  
   tree, 2313  
 pollination, 167-169  
 pruning, 2362, 2375j  
 quality, rootstock affects, 164  
 roots, growing varieties on own, 1361  
 rootstock(s)—  
   dwarfing, 1221  
   fruit quality affected by, 164  
   layering, 1236  
   myrobalan B, 2315, 3252  
   peach, 3261  
   root system of, 2326  
   -scion compatibility, 3251  
   seedling, 1363  
 sawfly, 3442  
 scab (*Fusicladium carpophilum*), 1459  
 seed—  
   germination, 2314  
   storage, 1356  
 shot-hole disease (*Clasterosporium carpo-*  
   *philum*), 2166  
 silver leaf, 2468  
 spray residue, 2530  
 storage—  
   of fresh, 2174  
   frozen pack, 3306  
 varieties—  
   Gerlax, 1352  
   silver leaf resistance in, 2468  
   vitamin C content, 196  
   wind breaks for, 1446  
 yeasts on, 2341  
 Plumericin, an antibiotic from *Plumeria* sp.,  
   2515  
*Plutella maculipennis*, 553  
*Poa pratensis*, 1946  
*Podosphaera*—  
   *leucotricha*—*see* Apple mildew  
   *oxyacanthae*, 2464  
*Pogastemon patchouli*—*see* Patchouli  
 Poinsettia—  
   cuttings, 3857  
 Poinsettia (*continued*)—  
   mineral deficiency, 1876  
   photoperiodic reaction of, 919  
   *Pythium* spp. on, 3858  
   *Rhizoctonia solani* on, 3858  
   *Thielaviopsis basicola* on, 3859  
   variegation in, 2833  
 Poison ivy (*Rhus radicans*) control, 1594, 1603q,  
   1603z, 2556, 2557  
 Poisonous plants—  
   and their control, 3495  
   in New Zealand, 3499  
 Poland, hop growing, 2814  
 Pollen—  
   collection from fruit trees, 1191  
   germination—  
     media for, 1372, 2327  
     perianth and, 3272  
   longevity, 878, 3152  
   storage, 883, 1373, 2034  
   viability, methyl bromide fumigation affects,  
     2329  
 Pollination—  
   almond, 165  
   apple—*see* Apple  
   artificial—*see also* below, hand—vaseline for  
     stigma sealing in, 3270  
   bean, 3115  
   by bees, 169, 170, 1377  
   black currant, 4109  
   boron deficiency prevents, 90  
   by bumble bees, 1329  
   cabbage, 688d  
   cacao, 3978, 4114  
   cantaloupe, 2604  
   cherry, 2328  
   cinchona, 3988  
   coconut, 1036, 2034  
   coffee, 1061, 1062, 2998  
   currant, 243, 244  
   date, 2953  
   fruit tree, 156  
   gooseberry, 244  
   hand—*see also* above, artificial—3234  
   maize and sweet corn, 638, 2665  
   melon, 564  
   oil palm, 2058  
   olive, 1375  
   onion, 1725p  
   peach, 3247  
   pear, 2327  
   persimmon, 2960  
   petunia, 1891  
   plum, 167-169  
   pollen quantity affects, 1374  
   potato, 694  
   raspberry, 244  
   strawberry, 1411  
   sweet potato, 1692  
   tobacco—*see* Tobacco  
   tomato, 2687, 2708u  
   *Trichosanthes dioica*, 1725j  
   vine, 267, 3343  
*Polygonum* spp., control of, 464

# SUBJECT INDEX

- Polyploid plants, 3, 78, 574, 796, 844, 868, 2078,  
2815, 2838, 2858, 3162, 3183, 3834,  
4080k
- Polyporus glomeratus*, 3831g
- Pomegranate defoliation, 2359
- Pomological Congress of France 1950, 4112
- Poncirus trifoliata*—see Orange, trifoliolate
- Popillia japonica*—see Japanese beetle
- Poppy—see also *Papaver*—  
diseases, 2856  
opium, 595, 836h, 1820-1822, 2150, 3816,  
3817  
prolonging life of cut Iceland, 1892
- Populus candicans*, antibiotic from, 3457
- Poria hypolateritia*, 2120
- Porison parkeri*, 1616
- Portugal—  
almond growing, 3351  
cherry growing, 3237  
cork oak growing, 2130  
fruit and vegetable exports to Brazil, 3239  
vine growing, 3332
- Portulaca* spp. control, 2152, 3527
- Pot(s)—  
bands impregnated with plant food in place  
of clay, 1228  
plants, wick for watering, 1873  
from soil and soil substitutes, 998, 1927,  
2271, 2272  
from wood shavings and town waste, 4116
- Potassium—  
cyanate—see Herbicides  
deficiency—  
in apple, 431d, 2334, 2375c  
in apricot, 2335  
in cherry, 2339  
in currants, 2375c  
in lemon, 2914  
in pear, 2334, 2335  
in potato, 713, 3690  
in prune, 2335  
in rose, 3889  
in sugar cane, 1121, 3051, 4054  
in tobacco, 3738  
in tomato, 1705, 2151  
in vine, 2400  
estimation, 2207, 2214  
fruit size affected by, 954  
manuring—see individual crops under manur-  
ing  
number determination, 1257
- Potato(es)—  
acclimatization in Russia, 696  
alfalfa-mosaic, 1765  
aphid—  
control, 745, 1761  
counts on, 2722  
injury to, 1776  
bacterial—  
ring rot (*Corynebacterium sepedonicum*),  
1769, 2733, 4111  
rots, 739, 1770, 1787, 2732  
wilt (*Bacterium solanacearum*), 2725  
black heart, 1754
- Potato(es) (continued)—  
black leg (*Bacterium phytophthorum*), 738  
blackening upon boiling, 2148  
blackening of raw, 2744, 3690  
blight—see also *Alternaria solani*—  
and bacterial tuber rot, 2732  
control, 406, 730, 732, 733, 767, 768d,  
1465, 1766, 1767, 2148, 2726, 3706, 3711  
forecasting, 728, 2583, 2728  
gradients, 2747g  
hosts of, 3705  
microclimate effect on, 2712  
resistance and susceptibility, 698, 729, 731,  
1732, 1734, 2148, 2714, 2725, 3101, 4110  
transmission to tomato, 2727
- boron—  
deficiency, 3691, 3692  
tolerance, 525
- breeding, 692, 698, 700, 701, 1239, 1732,  
2725, 3127, 3677, 3698, 3713, 3724g
- calcium deficiency, 2716
- canker—see also below, stem—768j
- capsid injury to, 747
- charcoal rot (*Macrophomina phaseoli*), 3724i
- chromosome number, 703
- Colorado beetle—  
in Austria, 2738  
control, 746, 1779, 1781, 2737, 2738  
in England, 3724h  
hibernation, 1778, 3716  
hosts of, 1777  
in Jersey, 3724f  
resistance, 700, 3713-3715
- composition of plant—see also below, tuber  
—1750
- crop rotation for, 2747f
- cutworm control, 2170
- dehydrase activity in plastids, 32
- diseases—  
in Java, 2725  
in Southern Rhodesia, 3676
- dormancy—see also below, sprouting—  
breaking, 1737, 1739  
growth substance treatment—  
at flowering induces, 1221  
to prolong, 765-767, 1216, 1763, 2745,  
2746  
and protoplasm of tuber cells, 35  
drought effect on, 14
- dry rot (*Fusarium caeruleum*), 2729
- early, growing in England, 4101
- earthing up, 710, 711
- Epicauda adpersa* on, 691
- Epilachna* sp. on, 701
- Erysiphe cichoracearum* on, 768m
- fire blight—see Potassium deficiency
- flavour, insecticides affect, 754-757, 1784
- fla beetles, 1775, 2739
- flowering of, 693, 694, 704
- Fusarium* wilt—see also above, dry rot—731,  
734, 735
- grafting, 702, 703, 1735, 1755, 3164
- growing—see also below, seed and varieties—  
in Argentina, 3724d



# SUBJECT INDEX

## Potato(es)—growing (*continued*)—

- in Canada, 1728
- in Colombia, 690
- in England, 689, 4101
- a manual on, 4101
- in Romney Marsh, 1210
- in Russia, 692, 696
- in Scotland, 3148
- in Uganda, 1241, 3137
- in U.S.A., 2710
- growth substance content, 720
- haulm destruction, 759, 1767
- heat resistance, 540
- herbicide injury to, 1612
- hoeing, 710
- internal—
  - brown spot, 763
  - necrosis, 697
- iris white fly (*Aleyrodes spiraeoides*) control, 751
- irradiation effect on, 2715
- irrigation, 714, 3695
- juice, electrolytic conductivity of, 1751
- lactic acid from, 768e
- leaf—
  - pigment content, 3700
  - roll, 722, 745, 1237, 1733, 1756, 1759, 1762, 1768, 3127, 3700, 4139
  - water content of, 58
- leaf hopper, 1775, 1782, 1783, 2740
- manuring, 526, 709, 712, 1222, 1742-1747, 1801, 2164, 3686-3688, 4118, 4139
- metabolism of slices, 1754
- microclimate of, 1740, 2711, 2712
- mosaic, interveinal, 3699
- mutations, induction of somatic, 1749
- nematodes, 740-744, 768i, 1771-1773, 1789a, 1789b, 2734-2736, 3724b, 4113, 4139
- nitrogen metabolism, 1789d
- nutrient solution culture, 715
- nutrition, 1748, 3689, 3691
- Oospora pustulans* on, 1459
- peeling economy, size and grade affect, 768r
- peroxidase activity in, 3709
- pest control, 1774, 3568, 3719
- Phoma foveata* on, 1459
- phosphorilase in plastids, 768q
- phosphorus—
  - requirements, 1750
  - uptake, 1748, 3688
- photoperiodic reaction of, 692
- planting—
  - depth, 707
  - machine, 708
  - "nest" method of, 3685
- pollination, 694
- potassium deficiency, 713, 3690
- powdery scab (*Spongospora subterranea*), 2713
- processing, 1788
- production—
  - cost of, 1728, 3695
  - world, 3675
- protein content, 718

## Potato(es) (*continued*)—

- Pseudococcus maritimus* on stored seed, 3718
- purple-top-type viruses, 768 l
- Pythium vexans* on, 1459
- quality—
  - determination, 719, 1257
  - factors affecting, 1744, 1746, 1789e, 2718
- ring rot—*see above*, bacterial
- scab, 736, 1768, 2730, 2731, 2747a, 3127
- "seed"—
  - adventitious buds of, 706
  - certification, 768p
  - cutting, 704, 705, 3724c, 4149
  - disinfection of, 735, 3131
  - flooding injury to, 764
  - fumigation injury to, 758
- growing—
  - in Argentina, 721
  - in Chile, 3681
  - in Colombia, 3682
  - in Scotland, 1726
  - in Uruguay, 691
  - in Wales, 1727
- storage, 762, 1738, 3718
- virus testing of, 721
- seed storage, 1730
- skin colour, growth substance increases, 1752, 4110, 4111
- soil—
  - cultivation, 710
  - pH, 1743
  - temperatures, 1740
  - water level, effect of, 3684
- spindle tuber disease, 2168, 2723
- sprouting—*see also above*, dormancy—
  - BHC retards, 754
  - light-darkness treatment for, 3683
- sprouts—
  - for propagation, 4116
  - water-culture of, 3697
- starch—
  - content, 1744
  - formation, 1753
- stem canker—*see also above*, canker—3707, 3708
- storage—*see also above*, seed—
  - in clamps, 760, 761, 2742, 2743
  - gas, 1216
  - general, 768a, 1789e, 2143, 3720, 3723, 4122
  - handling in, 1785, 1786
  - internal brown spot does not affect, 763
  - low temperature, 2718
  - and virus inactivation, 1762
  - vitamin C retention in, 1221, 3721, 3722
- stunting and leaf malformation, 1729
- tuber—
  - acid hydrolysis, 1788
  - amino acids in, 1789d, 4118
  - appraise in, 3693
  - composition, 706, 714, 716-718, 1789c, 1789d, 2717, 3204, 3612, 4118
  - enzyme activity, growth substance effect on, 3193

# SUBJECT INDEX

- Potato(es)—tuber (*continued*)—  
 hollow heart, 768n  
 necrosis, 2716  
 periderm formation, 731  
 rots—*see above*, bacterial  
 size, consumer preferences of, 768k  
 worm or moth (*Gnorimoschema operculella*), 748-750, 2788, 3717  
 utilization, 3675  
 varieties—*see also above*, growing—  
 blight resistant—*see above*, blight  
 in Brazil, 695  
 in Canada, 768o  
 in Chile, 768c  
 Katahdin, 768a  
 in Morocco, 3680  
 Primula, 3678  
 in Russia, 3679  
 in South Australia, 1736  
 a survey of, 3096  
 susceptibility to—  
 internal necrosis, 697  
 stem canker, 3708  
 trials in Austria, 513, 768f, 768g  
 vernalization, 705, 709  
 virus—  
 A, 1733, 1758, 4110  
 content, estimation of, 2148  
 diseases—  
 a bibliography of, 3696  
 diagnosis of, 3697  
 roguing for, 1756, 2747d  
 spread of, 1760  
 incidence and aphid numbers, 2722  
 indicator plants for, 1757, 1758  
 protection against, 2721  
 resistance, 1733, 3698  
 serology, 2720  
 X, 723-727, 1710, 1733, 1758, 1763, 1764,  
 2724, 2747b, 3701-3703, 3724c, 3746  
 Y, 1756, 1758, 1759, 1801, 1802, 2747c  
 yields affected by, 1764  
 vitamin—  
 A content, 3204  
 C content—*see also above*, storage—718,  
 1221, 2719, 3204  
 wart disease, 699, 737, 3709, 3710, 3724a,  
 3724e  
 washing, 992  
 water—  
 consumption, 1741  
 uptake by tissue, 1291  
 weed control, 479, 483, 710, 1579, 1584,  
 1589-1591, 2561, 3557, 3559f  
 "weight under water", 1257  
 wilting, heat causes, 3694  
 wireworm control, 752, 753, 2741  
 yields, 8, 1237, 1764  
*Pouzolzia hypoleuca*, a fibre plant, 1835  
*Prangos pabularia*, resin secretion of, 836o  
*Pratylenchus* spp. in various crops, 909, 1479,  
 2736, 2783  
 Preservatives, plants in frames affected by, 1226  
 Pretoria agric. Res. Inst., A.R. 1949/50, 2152  
 Prickly pear (*Opuntia megacantha*) control,  
 1568, 1569, 2173  
 Primula—  
 flower structure, 3862  
 hybrids, 927j  
*japonica*, 927j  
*malacoides*, 3861  
*obconica*, 1876, 4082  
 pollen germination, 1372  
 species in Kashmir, 3860  
 tetraploid, 927j  
 Privet—*see also Ligustrum*—variegation in,  
 2833  
 Processing horticultural products, 2375r  
*Profenusa canadensis*, 2506  
*Prontaspis yanonensis*, 2943  
 Propagation—*see under plants and methods*  
*Prosopis juliflora*, 508, 510c  
 Protease activity, 30  
*Protoparce sexta*, 2780  
*Proxenus rionegrensis*, 3436  
 Prune—  
 black-knot disease, 4109  
 drying, 3308  
 dwarf virus, 2446  
 fruit drop, spraying or dusting to retard,  
 3297  
 juice, 1407  
 leaf area, 1354  
 potassium deficiency, 2335  
 preharvest drop, 190  
 pruning, 190  
 rootstocks, 3252  
 spray residue, 1535, 1537  
 Pruning—*see also individual plants*—  
 effect on plant, 7  
 fruit trees, 3287  
 growth substance treatment combined with,  
 2362  
 Lorette method of, 1399g  
 a manual on, 4085  
 root, 216  
 wounds, dressings for, 1221, 3130  
 Prunings, machine for shredding, 1320  
 Prunus—  
*americana*, 1363  
*cerasifera* var. *atropurpurea*, 1926  
*Coccomyces* on, 2536p  
 cuttings, 2879  
*dauidiana*, a peach rootstock, 151  
*manchurica*, 1363  
*padus dolichocarpa*, 3900  
 pollen germination, 1372  
*sibirica*, 1363  
*tomentosa* as a virus indicator plant, 3382  
*Psalliotia*—*see also Mushroom*—*arvensis*, 2152  
*Pseudococcus*—  
*citri*, 1494, 1894, 2025, 2026, 2173, 2591,  
 2939, 3884  
*comstocki*, 3445  
*longispinus*, 2026  
*maritimus*, 1494, 3718  
*njalensis*, 2025  
 spp. on coffee, 2054

# SUBJECT INDEX

- Pseudococcus*(continued)—  
 spp. as virus vectors, 1031
- Pseudomonas*—  
*juglandis*, 3492o  
*lachrymans*, 2709b  
*maculicola*, 3572  
*savastanoi*, 3391  
*syringae*, 1787, 1984  
*tabaci* and *P. angulatum*, 788  
*tomato*, 2696  
*tumefaciens*—see Crown gall
- Pseudoperonospora humuli*, 816, 1225, 2817
- Pseudopeziza ribis*, 1469
- Psila rosae*—see Carrot fly
- Psylla pyricola*, 2504, 2527
- Pterandrus rosa*, 2173, 2174
- Pteridophytes of Belgium, 2128
- Puccinia*—  
*allii*, 3623  
*antirrhini*, 1879, 2840, 2849, 3864  
*apii*, 1631  
*asparagi*, 1459  
*distincta*, 850  
*helianthi*, 1459  
*kuehnii*, 1459  
*menthae*, 1459  
*pringsheimiana*, 1459  
*prunispinosae*, 353
- Pueraria hirsuta*, 2832e
- Puerto Rico—  
 coffee growing, 1044  
 insecticidal plants in, 2819  
 sugar cane growing, 1106, 1107
- Pulvinaria* spp. on coffee, 2054
- Pumice as a rooting medium, 1704
- Pumpkin—see also Squash and Cucurbits—  
 chlorophyll content, 1634  
 cotyledons, plants raised from, 64  
 growing in Russia, 1633, 1634  
 nutrition, 94  
 oil (*Cucurbita pepo oleifera*), 561  
 seed production, 566  
 variety White Russian 24-G, 1633
- Purslane control, 3527
- Pyracantha*—  
*crenulata* hedge, 921  
 scab (*Fusicladium pirinum* var. *pyracanthae*), 3909
- Pyrastia nubilalis*, 1688, 2668
- Pyrethrin—see also Pyrethrum—estimation, 1540a, 1540e
- Pyrethrum—  
 bud disease, 1229  
 cuttings, 1229  
 growing in Kenya, 1229, 4125  
 picking, 4125  
 pyrethrin content, 4125  
*Ramularia bellunensis* on, 4125  
 spacing, 1229, 4125  
 transplanting, 1229  
 weed control, 1229  
 wilt (*Sclerotinia minor*), 819
- Pyrilla* sp. on sugar cane, 1165, 1166
- Pyroderces rileyi*, 2941
- Pyrus*—see also *Malus* and Apple breeding—  
*betulifolia*, a pear rootstock, 3258  
*calleryana*, a pear rootstock, 2150  
*caucasica*, development of, 3312g  
*communis* root cuttings, 3264  
*serotina*, a pear rootstock, 307  
*ussuriensis*, a pear rootstock, 307
- Pythium*—see also Damping off—  
*aphanidermatum*, 2654, 2792a  
*butleri*, 1720, 2010  
 damping off—  
   in aster, 927s  
   in zinnia, 927s  
*debaryanum*, 567, 1459, 3759  
 spp.—  
   on lupin, 2887s  
   on poinsettia, 3858  
*ultimum*, 595, 1459, 1885  
*vexans*, 1459
- Quadraspidiotus perniciosus*—see San José scale
- Quarantine. international plant, 431k
- Queensland—  
 Acclimatisation Soc., A.R. 1949/50, 3144c  
 Dep. Agric. Stock, A.R. 1949/50, 2179  
 horticulture in, 929, 2007  
 Maroochy Experiment Station, 3964  
 sugar cane growing, 1099, 1108, 2074, 2084, 2093, 4036, 4037, 4040, 4080o
- Quince—see also Pear rootstocks—  
 cultivation and uses of, 3238  
 cuttings, 2316  
 growing in Italy, 2291  
 oriental fruit moth on, 1232  
 origin of, 234e  
 as a rootstock for apple, 110  
 rootstock, *Crataegus mexicana* a, 162
- Rabbit—see also Rodent—repellents, 2510
- Radioactive isotopes—see also Carbon, Iodine, Phosphorus and Sodium—81-86, 665, 775, 1296-1303, 1331f, 2148, 2254-2256, 2753, 3058, 3195-3198
- Radioactive tobacco mosaic virus, 1804
- Radioautographs, 2254
- Radish—  
 anthracnose leaf spot (*Colletotrichum* spp.), 548  
 cabbage root fly on, 3627  
 forcing, 3674v  
 frost—  
   damage to flower, 520  
   resistance, 1681  
*Fusarium* wilt, 2653  
 seed—  
   germination, 40, 628  
   growth substance treatment of, 1682  
   oil, 3817  
   production, 520, 624  
   selection, 512  
   soft rot (*Pythium* sp.), 2654  
   soil heating, 4116



# SUBJECT INDEX

- Radish (*continued*)—  
 soilless culture, 1312  
 tetraploid, 1681, 2652  
 water content of, 58
- Ragweed (*Ambrosia* spp.) control, 473, 1603z, 2565
- Rain—  
 clouds stimulated to produce, 16, 3227  
 gauge, a new recording, 2283k  
 mineral content of, 1254
- Rainfall—*see also* Climate and Weather—in Great Britain, 4132
- Raisin—*see* Vine, raisin
- Rambutan tree (*Nephelium lappaceum*), 3086
- Ramie (*Boehmeria* spp.), 836c, 836n, 1459, 1836, 1870a, 1870i, 2803, 2832p, 3105, 3778, 3831p
- Ramonda myconi* cuttings 903
- Ramularia—  
*bellunensis*, 4125  
*cyclaminicola*, 1900
- Rape pollination, 90
- Raspberry—  
 aphids, 364  
 boron deficiency, 1214  
 breeding, 124, 2381  
 buprestid cane borers, 1232  
 cane—  
 blight (*Leptosphaeria coniothyrium*), 2497  
 midge (*Thomasiniana theobaldi*), 378, 2497  
 certification, 235, 236  
 diseases, 3492y  
 flowering, growth substance treatment to delay, 247, 3317  
 growing—*see also below*, varieties—  
   in Canada, 1434b  
   in Scotland, 1405, 2380  
   in Tasmania, 3314  
 harvesting, 3318  
 herbicide injury to, 1594  
 juice, 1407  
 leaf spot (*Septoria rubi*), 2381  
 manganese deficiency, 3394  
 manuring, 2167  
 nutrition, 1406  
 pests, 3492y  
 pollination, 244  
 red spider, 3409, 3410  
 rubus stunt, 1452  
 spur blight (*Didymella applanata*), 378  
 varieties—  
   in Canada, 2148  
   for freezing, 2158  
   hardy, 124  
   Minnesota 321, 2292  
   in Scotland, 1405  
 virus diseases, identification and evaluation of, 2447
- Rat—*see also* Rodent—control, 2511
- Red currant—*see also* Currant—  
 aphid resistance in, 124  
 breeding, 124  
 diseases, 3492y  
 pests, 3492y
- Red spider mite(s)—*see also* scientific names and hosts—  
 a bibliography on, 3093  
 control—  
   by azobenzene, 3837, 3882, 3894  
   benzyl alcohol as an aid in, 1524, 2521  
   biological, 3940  
   by HETP and TEPP 2480, 2591, 3837  
   by organic fungicides, 2518, 2536k  
   by parathion and organic phosphates, 1231, 2481, 2486, 3411, 3412, 3414, 3415, 3473, 3837, 3852, 3883, 3894, 3941, 4135  
   by selenium, 3846, 3849  
   by sulphur, 2000, 2476, 2477, 3081, 3670  
   by systemic acaricides, 1657, 3885, 4120  
   by various acaricides, 379, 431a, 431n, 933, 1231, 1497, 1498, 1500, 1513, 1990, 2481, 2482, 2521, 2522, 2525, 2536g, 2590, 2592, 2940, 3409, 3414, 3415, 3492q, 3539, 3597, 3893, 4109  
 damage, estimation of, 2478  
 and DDT, 3408  
 diapause and photoperiodism, 1540m, 1540o  
 dispersal of, 2479  
 hatching of winter-eggs. 3492n  
 populations, variations in, 2593  
 resistance to organic phosphates, 1231, 3883, 3894
- Reduction-oxidation potential, 13311
- Report—*see also* Annual Reports and Year-books—  
 agric. Improvement Coun., England and Wales 1950, 4103  
 biennial—  
   Hawaii agric. Exp. Stat. 1948/50, 3110  
   Kansas agric. Exp. Stat. 1946/48 and 1948/50 3116, 3117  
   Utah agric. Exp. Stat. 1948/50, 4146  
   West Virginia agric. Exp. Stat. 1948/50 and 1946/48, 4149, 4153p  
 British Commonwealth sci. official Conf. 1949, 2144  
 Cambridge School Agric. hort. Res. Stat. 1922/49, 2187  
 Central exp. Farm, Ottawa, Div. Hort. 1938/48, 1216  
 Central exp. Farm, Ottawa, Div. Field Husbandry, Soils, agric. Engng 1936/48, 1215  
 Cocoa Conference, London, 1950, 1219  
 Commonwealth econ. Cttee, 2149, 3107  
 Fermentation Industries 1949, 2178  
 Fort Vermillion Dominion exp. Substat. 1939/48, 2157  
 on fungicides in Canada and U.S.A. 1949/50, 1230  
 Illinois agric. Exp. Stat. 1938/47 and 1948/50 4119, 4121  
 I.R.S.I.A.,\* 2162  
 Klosterneuburg hort. Coll. Res. Stat. 1945/50, 4127
- \* Inst. pour l'Encouragement de la Recherche scientifique dans l'Industrie et l'Agriculture.

# SUBJECT INDEX

## Report (continued)—

- Land Settlement Ass. 1945/50, 4153i
- Malaya Rubber Res. Inst. 1941/45 and 1945/48, 2169, 4130
- Manitoba Crops, Livestock 1950, 4153j
- Ministry Agric. London: Seeds 2171
- nat. Fruit trials, England, 3240
- N.E. Weed Control Conf. coord. Cttee. (N.E.W.C.C.) 1950 and 1951, 1542, 3496
- Romney Marsh Investg., 1210
- Scottish Soc. Res. Plant Breeding 1950, 1239
- Specialist Conf. Agric., Aust., 1949, 2144
- Summerland, B.C., Dominion exp. Stat. 1937/48, 3135
- Texas agric. Exp. Stat. 1947/49, 2183

## Resins—

- from *Euonymus verrucosa*, 1839
- of Indonesia, 3831i
- of the Mediterranean region, 1837
- oleo-, from *Pinus caribaea*, 2805
- sources and utilization of natural hard, 808
- from *Styrax* spp., 1838

## Respiration—see also Apple, fruit and Apple, storage—

- of fruits in storage, 2282
- plant, 5, 85, 109o, 541, 1139, 1271, 3175, 3229k, 3191, 3868, 3951
- root, 3610, 3674y

## Réunion, sugar cane growing, 4080q

## Reviews, book—

- Acerete, A., Frutas y verduras congeladas, 2112
- Anley, G., Alpine house culture for amateurs, 4081
- Arends, G., Mein Leben als Gärtner und Züchter, 4082
- Atkins, F. C., Mushroom growing today, 1188
- Audas, J. W., The Australian bushland, 3089
- Bagenal, N. B., The fruit grower's handbook, 2113
- Baldwin, E., Dynamic aspects of biochemistry, 1189
- Bawden, F. C., Plant viruses and virus diseases, 1190
- Bean, W. J., Trees and shrubs hardy in the British Isles, 2114
- Berg, J., and Krüssmann, G., Freiland-Rhododendron, 4083
- Bodenheimer, F. S., Citrus entomology, 3090
- Böhm, L., Snůška s ovocných stromů (Pollen collection from fruit trees), 1191
- Breviglieri, N., Peschicoltura, 2115
- Brooke, J., Peaches, apricots and other stone fruits, 4084
- Catchpole, N., Simple pruning, 4085
- Chandler, W. H., Deciduous orchards, 4086
- Cochran, W. G., and Cox, G. M., Experimental designs, 4087
- Colvin, B., Tyrwhitt, J., and Badmin, S. R., Trees for town and country, 2116
- Condit, I. J., A bibliography on the avocado (*Persea americana* Miller), 3091

## Reviews, book (continued)—

- Correll, D. S., Native orchids of North America, 4088
- Dakers, J. S., Annuals for garden and greenhouse, 3092
- Dalmasso, G., Problemi di viticoltura moderna, 1192
- Doidge, E. M., The South African fungi and lichens to the end of 1945, 1193
- Ebeling, W., Subtropical entomology, 1194
- Edelman, C. H., Soils of the Netherlands, 4089
- Eiselt, M., and Krüssmann, G., Die Freiland-Schmuckstauden. I. Anzucht und Kultur, 1195
- Erneholm, I., Cacao production of South America, 1196
- Faraday Society. The interaction of water and porous materials: general discussion of the Faraday Society No. 3, 1197
- Faulkner, R. P., Simple gardening, 2117
- Folley, R. R. W., Economics of a fruit farm, 2118
- Foster, J. W., Chemical activities of fungi, 1198
- Fox Wilson, G., Pests of flowers and shrubs, 2119
- Gadd, C. H., The commoner diseases of tea, 2120
- Gardner, V. R., Basic horticulture, 4090
- Goddard, J. H., The new chrysanthemum treasury, 4091
- Groves, J. R., and Massee, A. M., A synopsis of the world literature on the fruit tree red spider mite, 3093
- Hardy, J., Flower production for market, 2121
- Haskell, G., Plant breeders of the future, 2122
- Hauman, L., and others, Flore du Congo belge et du Ruanda-Urundi. Spermatophytes. Vol. II, 4092
- Hawker, L. E., Physiology of fungi, 2123
- Hedrick, U. P., A history of horticulture in America to 1860, 3094
- Hills, L. D., The propagation of alpine, 3095
- Hughes, H., Fruit cultivation for amateurs, 4093
- Hunter, H. [and Carson, G. P.], Crop varieties. Varieties of cereals, flax, potatoes, beans, and field peas, 3096
- Ignatieff, V. (Editor), Efficient use of fertilizers, 2124
- Jackson, R. L. O., Mushroom growing, 2125
- Jacobsen, H., Volk, O. H., and Herre, H., Mesembryanthemaceae, 4094
- Kalshoven, L. G. E., De plagen van de cultuurgewassen in Indonesie. Deel 1, 1199
- Kelley, A. P., Mycotrophy in plants. Lectures on the biology of mycorrhizae and related structures, 2126
- King, F. C., The weed problem, 4095

# SUBJECT INDEX

## Reviews, book (continued)—

- Laibach, F., and Fischnich, O., Pflanzen-Wuchsstoffe in ihrer Bedeutung für Gartenbau, Land- und Forstwirtschaft, 1200  
 Laurie, A., and Ries, V. H., Floriculture. Fundamentals and practices, 2127  
 Lawalrée, A., Flore générale de Belgique: Pteridophytes, 2128  
 Lawrence, W. J. C., Science and the glass-house, 2129  
 Lundegårdh, H., Leaf analysis, 4096  
 Marggraf, M., and Hartmann, G., Das Chrysanthemum; sein Formenreichtum und seine Kultur, 1201  
 Markham, E. (revised by Hellyer, A. G. L.), Clematis, 3097  
 Metcalfe, C. R., and Chalk, L., Anatomy of the dicotyledons, 1202  
 Naik, K. C., and Gangolly, S. R., A monograph on classification and nomenclature of South Indian mangoes, 1203  
 Natividade, J. V., Subericultura, 2130  
 Nelson, A., Medical botany, 4097  
 North Coombes, G. A., The fibre industry in Mauritius, 4098  
 Perry, F., The garden pool, 3098  
 Phillips, G. A. R., The rock garden and alpine plants, 3099  
 Pittier, H., Trabajos escogidos, 2131  
 Robbins, W. W., and Weier, T. E., Botany: an introduction to plant science, 1204  
 Russell, Sir E. J. (revised by Russell, E. W.), Soil conditions and plant growth, 3100  
 Sanders, W. T., and Macself, A. J., The flower garden, 4099  
 Smith, G., Organic surface cultivation, 1205  
 Smith, K. M., An introduction to the study of viruses, 2132  
 Smith, K. M., Recent advances in the study of plant viruses, 4100  
 Smock, R. M., and Neubert, A. M., Apples and apple products, 1206  
 Stebbins, C. L., Jr., Variation and evolution in plants, 2133  
 Tantau, M., and Weinhausen, K., Die Rose, ihre Kultur und Verwendung, 1207  
 Thomas, W. L., and Eyre, P. W., Early potatoes, 4101  
 Ulmann, M., Wertvolle Kautschukpflanzen des gemässigten Klimas. Dargestellt auf Grund sowjetischer Forschungsarbeiten, 4102  
 Vogel, F., Obstbaumdüngung mit praktischen Beispielen, 1208  
 Wakefield, E. M., and Dennis, R. W. G., Common British fungi, 1209  
 Westcott, C., Plant disease handbook, 2134  
 Wilkie, D., Gentians, 2135  
 Williams, R. O., The useful and ornamental plants in Zanzibar and Pemba, 2136  
 Wishart, J., Field trials II: The analysis of covariance, 2137  
 Zambra, G. L., Violets for garden and market, 2138

- Rhabditis brevispina*, 1908  
*Rhabdospora ramealis*, 2463  
*Rhagoletis*—  
   *pomonella*, 3429  
   spp. on cherry, 2501, 3430, 3431  
*Rhizoctonia*—  
   *bataticola*, 1022  
   *repens*, 1920  
   root rot of lima bean, 2708m  
   *solani*—see also Damping off—840, 1651, 1888, 1897, 2662, 3707, 3708, 3858  
   *tuliparum*, 872  
*Rhizoglyphus echinopus*, 872  
*Rhizopus nigricans*, 3457  
 Rhizosphere, microflora of, 596, 1247, 2194  
 Rhodes, vine growing in the isle of, 1413  
 Rhodesia—  
   Northern, Dep. Agric., A.R. 1949, 3144b  
   Southern—  
     Botanist, Plant Pathologist, A.R. 1949, 2161  
     coffee growing, 1043  
     Dep. Agric., Chief Tobacco Officer, A.R. 1949, 2147  
     Entomologist, A.R. 1949, 2172  
     Horticulturist, A.R. 1949, 2160  
     leguminous trees in, 1182  
     plant diseases in, 1460  
     potato growing, 3676  
     tea growing, 4065  
     tobacco growing, 769, 2147, 3732  
 Rhododendron—  
   *catawiense*, 1236  
   cuttings, 1236, 2879, 4108  
   damping-off, 904  
   growing—  
     in England, 2887m  
     in Germany, a handbook on, 4083  
     out of doors, 4083  
   hybrids, 3916a  
   layering, 922  
   *molle*, an insecticidal plant, 818  
   seedlings, pots for, 1927  
   *Stephanitis rhododendri* on, 4108  
*Rhoecocoris sulciventris*, 982  
 Rhubarb—  
   composition, 1723  
   downy mildew (*Peronospora jaapiana*), 686  
*Rhus*—see also Poison ivy—spp., wax and tannin from, 1868, 1869, 4110  
*Rhynchaenus pallicornis*, 3425, 3426  
*Rhynchites germanicus*, 1889  
*Rhytidodera simulans*, 2057  
*Ribes aureum*, Botrytis damage to, 927h  
*Rigidoporus microporus*, 4123  
 Ringing—see Girdling  
*Robinia pseudo-acacia* control, 1563  
 Rodent—see also individual species—  
   control, 3448, 3449  
   damage, prevention of, 1511  
 Romney Marsh Investig., Rep., 1210  
 Root(s)—  
   cell development, 1261, 1262  
   cell elongation, 109e, 2283c



- Root(s) (*continued*)—  
 cuttings, 71, 3264, 3265  
 fibrous, determination of the amount of 3229h  
 grafting mango, 1072  
 growth, heteroauxin and, 67, 68, 281  
 oxygen requirement of, 29, 900  
 and photoperiodic reaction, 2226  
 pruning, 216  
 respiration, 3610, 3674y  
 tissue culture for diagnosis of mineral deficiency, 1311  
 vitality determination in poisoned, 433  
 volatile organic substances absorbed by, 39  
 water movement in, 54
- Rootstock(s)—*see also particular plants*—  
 cuttings, 2315, 2900  
 fruit tree, a review, 157  
 investigations at East Malling Research Station, 2321  
 -scion relationships, 86, 156, 3251, 3312n  
 seed production for fruit tree, 3267
- Rosa—  
*acicularis*, 902  
*bracteata* control, 509  
*damascena*, attar from, 2801  
*indica-major*, a rootstock, 1922  
*rugosa*, 1236
- Rosaceae—  
 leaf initiation and pith development in, 3916s  
 vegetative shoot apices in, 3916r
- Rose(s)—  
 beetle, Fuller (*Pantomorus godmani*), 2942  
 boron deficiency, 896, 2890  
 breeding, 2870, 2873  
 bud sports, 3886  
 chafer, 1928  
 chromosome numbers, 3115  
 cuttings, 4108  
 defoliation by chemicals, 3131, 3892  
 dormancy prolonged by growth substances, 4108  
 embryo culture of, 2870  
 frost resistance, 2873  
 gardens, lay-out of, 895  
 grafting, 2872  
 growing—  
   in Brazil, 2869  
   in California, 2887f  
   in Canada, 1921  
   in the Côte d'Azur, 1922  
 hips, carotinoid concentrate from, 902  
 hips, vitamin C content, 2874  
 irrigation, 897-899  
   a manual on, 1207  
   manuring, 898, 899, 1923, 2151  
   mulching, 899, 2887g, 3891  
*Phragmidium subcorticium* on, 1236  
 potassium deficiency, 3889  
 powdery mildew, 3893  
 pruning, 901  
 red spider, 1231, 3837, 3885, 3893, 3894  
 ring-spot virus, 330
- Rose(s) (*continued*)—  
 root-growth, 3888  
 root, oxygen requirements, 900  
 rootstocks, 1236, 1922, 4108  
 selection societies, 3887  
 storage of bushes, 841  
 storage of cut, 843, 3263  
 transplanting, 3131, 3892  
 uprooting of, 1319  
 variety "Miriam's Climber", 2871  
*Verticillium* wilt, 1236, 4108  
 weed control, 3891  
 wild, control of, 509, 2568
- Rosellinia—  
*arcuata*, 2120  
*necatrix*, 1897
- Rosemary oil, 1830
- Rothamsted Exp. Stat.—  
 A.R. 1949, 1950, and 1949 Appendix, 1237, 4139, 4140  
 field experiments at, 1238
- Rotylenchus* sp. in *Hippeastrum*, 3874
- Rubber—  
 Hevea—  
   *Armillaria mellea* on, 4123  
   budding, 1218, 2169  
   clones, 1088, 1218, 2068, 4114  
   cover crops, 2169  
   *Diplodia* sp. on, 4110  
   fire damage to, 3046  
   *Fomes lignosus* on 1218, 3047  
   *Fusicladium macrosporium* on, 4090  
   growing—  
   in Angola, 1086  
   in the Belgian Congo, 4025  
   in British Guiana, 2145, 2146  
   in Ceylon, 2111p  
   in Colombia, 4023  
   in India, 1085  
   in Indonesia, 3039, 4026  
   hedges, 4028  
   intercrops for, 3044  
   investigations at A.V.R.O.S. Res. Stat., Indonesia, 4106  
   investigations in the Belgian Congo, 4123  
   latex—  
   composition, 1090, 4029, 4030, 4032  
   creaming agents, 3088o  
   esterase, 3050  
   preservation, 4130  
   processing—  
     economics of, 1093  
     general, 1094, 1187g, 3049  
   vessels, 4031  
 leaf—  
   analysis, 1091  
   blight, South American (*Dothidella ulei*), 1089  
   spot (*Pellicularia* sp.), 1089  
 manuring, 1218, 1237, 2069, 2169, 3045  
 mildew (*Oidium heveae*); 1218, 2070-2073, 4034  
 mineral deficiency, 1092  
 mouldy rot, 4130

# SUBJECT INDEX

- Rubber—*Hevea* (continued)—  
 nutrition, 1092  
 planting holes, size of, 3043  
 production and consumption, 2149  
 quality—see also above, latex—3048, 3088k  
 replanting, 2111d  
 Research Bd., Ceylon, A.R. 1949, 1218  
 Research Inst. Malaya, Rep. 1941/45 and 1945/48, 2169, 4130  
 research, need for, 1083, 1084  
 reviews on, 4023, 4024  
*Rigidoporus* sp. on, 4123  
 root disease, 2169, 4130  
 rootstocks, 4114  
 selection, 3040-3042  
 spacing, 4130, 4114  
 tapping, 1086, 2169, 4114  
 thinning, 1088, 4027  
 wound dressings for, 4033  
 yields, 1087, 1088  
*plants other than Hevea*—  
 cryptostegia, 820  
*Ficus* spp, 1085, 2073  
 goldenrod (*Solidago*), 820, 821  
 guayule—see Guayule  
 kok-saghyz—see Kok-saghyz  
 research in U.S.A., 820  
 temperate, a monograph on, 4102
- Rubus*—  
 spp., control of—see Blackberry  
 spp. for raspberry breeding, 2381  
 stunt, 1452  
*ursinus*, 1468
- Rudbeckia* spp., photoperiodic reaction of, 46, 47, 109r, 109x, 1275, 2226
- Rumex hymenosepalus*, tannin from, 830, 2150, 4110
- Russia—see U.S.S.R.
- Safflower—  
 breeding, 1856-1858  
 diseases, 3831f  
 growing in U.S.A., 3818  
 oil, 1858, 3132, 3817, 3818  
*Phytophthora* blight, 1859  
 production, economics of, 3818  
 varieties, oil content of, 3131
- Sagopalm, 4018
- Saintpaulia—  
 azobenzene injury to, 3882  
 propagation, 3880
- Saissetia*—  
*hemisphaerica*, 2054, 3884  
*oleae*, 3937, 3938
- Salix viminalis*, growth promoting and growth inhibiting substances in, 63
- Salt tolerance, 278, 1115, 1304, 2401, 2901
- San José scale—see also hosts—  
 control, 412, 1538, 1540x, 3472, 4109  
 injuries caused by, 395
- Sand culture—see Soilless culture
- Sanninoidea exitiosa*, 387
- Sansevieria—  
*Aspergillus* root-stalk rot of, 3023  
 leaf cuttings, 3022  
 São Paulo agric. Inst., A.R. 1950, 4141  
*Saperda candida*, 365  
*Sapium* spp. as oil plants, 2827,  
 Sapodilla (*Achras zapota*), 4079  
 Sapote, white (*Casimiroa edulis*)—  
 growing in Argentina, 1183  
 rootstocks, 1009  
 Sarawak Dep. Agric. A.R. 1949, 3134  
*Sarothamnus scoparius*, a fibre plant, 807  
*Sasa* spp. in Japan, 1866  
 Sawdust—see also Mulching—compost from, 4147
- Saxifragaceous plants, vascular system of, 927u
- Scabiosa* spp., photoperiodic response of, 3170
- Scabious, perennial, 927r
- Scabrin from *Heliopsis scabra*, 28321
- Scale insect—see also individual species and hosts—control by BHC, 2976
- Scandinavia, horticulture in, 2283s
- Scaptocoris castaneus*, 4062
- Schinus molle*, anthracnose of, 3902
- Schizandra chinensis*, an ornamental and essential oil plant, 923
- Schizophyllum commune*, resistance to, 1512
- Sciariidae* spp. on mushroom, 603
- Scilla non-scripta* distribution, 27
- Scion rooting, 1371, 3260
- Scirpophaga nivella*, 3112
- Scirpus* spp., control of, 464
- Sclerotinia*—see also *Monilia*—  
*camelliae*, 911, 2881  
*fructicola*, 351, 353, 1473, 1475, 3456  
*fuckeliana*, 1685  
*homeocarpa*, 2885  
*laxa*, 351, 3394  
*minor*, 631, 819, 1685  
*sclerotiorum*, 528, 529, 631, 1888
- Sclerotium*—  
*cepivorum*, 1678  
*gladioli*, 1911
- Scolytus rugulosus*, 365
- Scopoletin, 4111
- Scopulariopsis fimicola*, 601
- Scotland—  
 agric. Coll., West of, A.R. 1949/50, 3141  
 certification of small fruit, 235  
 fruit and vegetable variety trials, 3148  
 potato and seed potato growing, 728, 1726  
 raspberry growing, 1405, 2380
- Scottish Soc. Res. Plant Breeding, Rep. 1950, 1239
- Sedoheptulose determination, 22
- Sedum*—  
*acre* control, 3542  
 leaves, water-loss from stripped, 1283  
 notes on the genus, 891
- Seed(s)—see also individual plants—  
 bioelectric potential of, 2217  
 -borne diseases, 346, 1233  
 catalase activity of, 1282

# SUBJECT INDEX

- Seed(s) (*continued*)—  
 cleaning, 1924, 2877  
 composition—*see also below*; hulls—and  
 soil moisture, 1281  
 disinfection, machines for, 107, 1330  
 disinfection by various chemicals, 661, 1230,  
 2575, 2577, 2614, 2778  
 embryoless, *Lygus* bug responsible for, 625  
 germination—*see also below*, testing—  
 ascorbic acid synthesis during, 1642  
 inhibitors of, 74-76, 869  
 and light sensitivity, 40  
 radioactive treatment, no aid in, 4110  
 temperature and ultra-violet light effect on,  
 621  
 vegetable, 3566  
 weed, 510j, 510 l, 1603n  
 hulls, composition of, 3229a  
 pelleting, 4090  
 production—  
 beetroot, 3617  
 brassica, 554  
 brussels sprouts, 552  
 cabbage—*see*, Cabbage  
 carrot—*see* Carrot  
 dill, 3770  
 fennel, 2808, 3770  
 fruit tree, for rootstocks, 3267  
 of green manure crops, 2093  
 onion—*see* Onion  
 sweet corn, 687f, 2665  
 tobacco, 770, 3130  
 tomato, 2708u  
 vegetable, 520, 1604, 1605, 2574, 3111,  
 3563, 3565  
 quality, control of, 2171  
 ripening, fatty acids in, 2218  
 soaking injury to, 581  
 storage, 627, 1356, 1730  
 stratification, 1357  
 testing—  
 Flemings "excised embryo" method,  
 2314  
 Inst., Vienna Crop Prod. and, A.R. 1949,  
 1242  
 tetrazolium for, 2219, 3250  
 in U.S.A., 3564  
 transaminase in, 3159  
 treatment—*see also above*, disinfection—  
 with carbon monoxide, 1606  
 with fertilizers, 517, 1609  
 with growth substances, 64, 65, 772, 1682  
 with ultrasonics, 1687  
 warm water treatment of, 2576  
 water, content determination, 61
- Seedling(s)—  
 artificial illumination of, 3115  
 organs, culture of isolated, 36  
 raising of, 2271, 2272  
 sugar nutrition of, 2266
- Selenium for pest control—*see* Sprays,  
 insecticides
- Senecio* spp., ornamental, 3853  
*Septanychus texazona*, 2592
- Septoria—  
*apii*, 1631  
*helianthi*, 9271  
*iridis*, 1909  
*lycopersici*, 673, 1715  
*obesa*, 2849  
*piricola*, 3403  
*pisi*, 1652  
*rubi*, 2381
- Sesamum*—  
*indicum* oil, 3819  
*orientale*, grasshopper injury to, 1860
- Seychelles—  
 cinnamon bark from, 1840  
 clove growing, 1034  
 grass in tea plantations, 1177
- Shaddock (*Citrus grandis*), tetraploid, 945, 946
- Shade tree(s)—*see also particular crops and  
 trees*—  
 Conference, nat., combined Proc. of the  
 26th, 3126  
 herbicide damage to, 2570b  
 pest control, 3912
- Shallot—  
 bulb size, 2151  
 growing in Louisiana, 2708r  
 neck rot (*Botrytis*), 2636  
 storage, 2151
- Shea-butter tree (*Butyrospermum parkii*), 2974
- Shelter belts—*see* Windbreaks
- Shrubs—*see also* Ornamental—flowering in  
 France, 927e
- Sierra Leone, ginger from, 1841
- Singapore—  
 bot. Gardens Dep., A.R. 1949, 1244h  
 horticulture in, 892
- Sisal—  
 breeding, 3966  
 cover crops, 1240  
 cutting, 1229, 1240, 4126  
 damping off, 2010  
 Exp. Stat., Tanganyika, A.R. 1948, 1240  
 growing—  
 in Angola, 3779  
 in Belgian Congo, 3831 l  
 in Kenya, 1229  
 in Madagascar, 3831c, 3831m  
 in Tanganyika, 2182  
 manganese deficiency, 3024  
 manuring, 2182, 4126, 4115  
 mulching, 4126  
 planting, 1240  
 Res. Stat., Thika, Kenya, High Level, A.R.  
 1950, 4126  
 soil management, 1240, 2182  
 spacing, 1068, 1229, 1240, 2182, 4126
- Sitona lineata*, 1530
- Small fruit—*see also* Berry, Soft fruit and  
*separate species*—  
 containers for, 300m, 1234, 2174  
 growing—  
 in Canada, 1216, 1400, 2157  
 in U.S.A., 1434a  
 insect pests of, 2536c

# SUBJECT INDEX

- Smallholdings in England, 4153i  
*Smilacina stellata*, 1913  
*Smynthurus viridis*, 1653, 1654  
 Snail—  
   control, 2170  
   giant African (*Achatina fulica*), 1020, 2978  
 Snapdragon—  
   flower drop, 847  
   flowering, starter solution induces early, 837  
   iron deficiency, 3863  
   pigments of, 2839  
   pollen longevity, 3152  
   polyploid, 78  
   powdery mildew, 927a  
   rust (*Puccinia antirrhini*), 1879, 2840, 2849, 3864  
   *Verticillium wilt*, 1716  
 Snowdrops—  
   phenological data for, 11  
   and snowflakes, 1914  
 Sodium—  
   content of plants, 3066  
   estimation, 18, 2207, 2215  
   as a fertilizer, 1232, 2581  
   nucleate as a polyploidizing agent, 109a  
   perchlorate injury to tomato, 663  
   radioactive, 1303  
 Soft fruit—*see also* Small fruit and Stone fruit—  
   bird damage to, 2509  
   storage, frozen pack, 3306  
 Soil(s)—  
   aeration, 29  
   air and water relationships, 4080h  
   of Belgium, 2162  
   blocks—*see also* Pot, 2271, 2272  
   conditions and plant growth, a book on, 3100  
   conservation—*see also* Planting, contour—  
     canals and ditches for, 3005  
     in coconut, 1039  
     in coffee, 3003-3005, 4004, 4005, 4080g  
     crops or vegetation barriers for, 1017, 2832e  
     terracing for, 3283  
     in vine, 1419  
   erosion—  
     control—*see above*, conservation  
     losses, determination of, 1052  
   flooding—*see* Flooding  
   fumigants—*see* Fumigation and below, sterilization  
   heating, electric, 5, 629, 2159, 4108, 4116  
   injectors, 102, 1321, 2270  
   management without cultivation, 1205  
   micro-organisms and plant roots, 1247  
   mixing, mechanical, 1326  
   moisture—  
     fruit tree and vine response to, 181, 182  
     measurement, 12, 1324  
     optimum, 1280  
     and seed composition, 1281  
   of the Netherlands, 4089  
   nitrogen economy of tropical, 3968  
   Soil(s) (continued)—  
     potting, 892  
     requirements of fruit trees, 173  
     Research, Macaulay Inst. for, A.R. 1949/50, 2167  
     salinity—*see also* Salt, 527  
     sampling tube, 1222  
     Science Inst. T.N.O., Groningen A.R. 1949, 4118  
     sickness, 279, 1221, 2422, 2423  
     spray residue in—*see* Spray(s)  
     sterilization—*see also* Fumigation, soil—  
       electric, 5  
       by flash flame pasteurizer, 1325  
       by steam, 3217, 3580  
       various methods of, 3463  
       for weed control, 436  
     temperature, 12, 14  
     water level, 3684  
   Soilless culture—  
     aeration in, 2283b  
     American developments, 1331s  
     chelating agents in, 1312  
     for diagnosis of mineral deficiency, 1313  
     equipment, 96-98, 1316  
     growing plants in, 3228q, 3846  
     ion absorption in, 95, 1309  
     media for, 95, 96, 99, 1315, 1610, 1704  
     organic amendments for, 1314  
     a review, 2283a  
     in sterile medium, 1310  
   *Solanum*—*see also* under Potato breeding—  
     *andigenum*, 1459  
     *demissum*—  
       haploid, 768b, 768h  
       a virus indicator, 1758  
     *latifolium*, a rootstock for solanaceous plants, 2678  
     *quitoense* cuttings, 2065  
     species—  
       chromosome, numbers of, 1731  
       flowering of, 693  
       as hosts of the golden nematode, 2747e  
       ornamental, 1893  
   *Sonchus* spp., control of, 443, 1571, 2546  
   *Sorbopyrus auricularis*, 2322  
   *Sorbus* in Russia, 234n, 234p  
   *Sorghum halepense*—*see* Johnson grass  
   " Sour sap " of fruit trees, 3376  
 South Africa—  
   Dep. Agric., A.R. 1949/50, 2185  
   Div. Bot. Plant Path., A.R., 1949/50, 2153  
   Div. Ent., A.R. 1949/50, 2173  
   Div. Hort., A.R. 1949/50, 2142  
   fungi and lichens of, 1193  
   onion growing, 1671  
   tropical and subtropical fruit research in, 928  
   South African sugar year book 1948/49, 2181  
   Southern Rhodesia—*see* Rhodesia  
   Spacing—*see also* individual crops—fruit trees, 121  
   Spade, automatic digging by sprung, 104  
   Spain—  
     flora of, 3831d



# SUBJECT INDEX

- Spain (*continued*)—  
 olive growing, 1399h  
 Sparrow control, 396  
 Sparteine, lupins and brooms containing, 817  
*Spartium junceum*, a fibre plant, 807  
*Spathoglottis* orchids, 3110  
 Spearmint—*see also* Mint and Peppermint—  
 oil, 2832a  
 rust, 2800  
 Spectrography, 17, 1255, 1331j, 2167, 2207,  
 2214, 2215, 2283v, 3155  
*Spergula arvensis* control, 510p, 2551  
*Sphaceloma*—  
*ampelinum*, 3405  
 sp. on banana, 2980  
*viburni*, 2887 l  
*Sphaeralcea*, taxonomy of, 1936  
*Sphaerotheca*—  
*mors-uvae*, 246  
*pannosa*, 2166  
 Sphagnum moss, a rooting medium, 4149  
*Spicaria* sp. on mushroom, 1668  
 Spice production and consumption, 2149  
 Spices : origin, quality and evaluation, 3765  
 Spinach—  
 carotene content, 687b  
 chloride a nutrient for, 91  
 cucumber virus 1, 637  
 glasshouse, 1226  
 herbicide injury to, 1612  
 leaf miner (*Pegomya hyoscyami*), 1686  
 nematodes, 2646  
 phosphorilase in plastids, 768q  
 photoperiodic reaction of, 50  
 seed germination, 635, 636  
 sodium a fertilizer for, 2581  
 sowing rate, 634  
 storage, frozen pack, 687b  
 tetraploid, 2663  
 transport of, 1620  
 variety Reuzen Cavallius, 634  
 vitamin A and C content, 687b, 2663  
 weed control, 1580, 3558  
 Spindle bush—*see also* Apple etc.—soil  
 cultivation for, 234f  
*Spiraea tomentosa*, 924  
*Spiranthes australis*, 894, 927p  
*Spondias purpurea* growing, 1186  
*Spongospora subterranea*, 2713  
*Sporendonema* sp. on mushroom, 3125  
 Spray(s) and spraying, including dusts and  
 dusting—  
 by aeroplane—*see also below*, helicopter—  
 370, 421, 423, 424, 2528, 2536a  
 aerosol—*see below*, insecticides  
 apparatus—  
 for aerosol generation, 1529  
 boom, hooded, 425  
 carbon dioxide powered, 1331e  
 co-operative, 3492w  
 for dust application in laboratory, 1530  
 friction in hoses, pipes and fittings,  
 2536j  
 home-made, 2274  
 Spray(s) and spraying (*continued*)—  
 for low volume—*see also below*, concen-  
 trate—431f, 1526-1528, 2529, 3491,  
 3568  
 manual, a general purpose, 3489  
 mast type, 3490  
 a review, 1435  
 for smoke generation, 2275  
 stationary plant, 420  
 arsenical—*see also below*, insecticides—  
 fruit maturity advanced by, 957  
 for blossom thinning—*see* Thinning  
 concentrate—*see also above*, apparatus for  
 low volume—coverage of, 3480  
 damage—*see below*, injury  
 frosty weather increases action of, 407, 412  
 fungicides—*see also diseases and hosts*—  
 aryloxyalkylcarboxylic acids, 2239  
 bordeaux, 1766  
 in Canada and U.S.A., a report on, 1230  
 2-capryl-4, 6-dinitrophenyl crotonate  
 (Karathane), 3893  
 compatibility with insecticides, 1514  
 copper—*see also above*, bordeaux and  
*below*, verdigris—  
 evaluation of, 2516  
 naphthenate, 1476, 2517  
 Ob 21, 3404  
 residue, 2726  
 a review, 1515  
 cycloheximide, 2885  
 2,3-dichloro-1,4-naphthoquinone (Phy-  
 gon), 406, 1465  
 diluents for, 1522  
 4,5-dimethyl-2-mercaptothiazole deriva-  
 tives, 3467  
 Dithane, 3712  
 DN-111 (20% dinitro-o-cyclohexylphenol,  
 dicyclohexylamine salt), 409  
 ethylene bis-dithiocarbamate of zinc (zineb)  
 1669, 3711  
 ferbam, 408  
 frosty weather increases action of, 407  
 glyoxalidine, 410, 2518, 3399, 3492m  
 griseofulvin, 2658  
 in Holland, 305  
 with insecticidal action, 3468  
 insecticides as, 2526, 2849, 3759  
 leaf structure affected by, 146  
 lime-sulphur—*see also below*, sulphur, 176  
 a list of approved, 3492t  
 mercurial, 887, 1155, 1156, 3636  
 Midox, 3468  
 nabam, 2519  
 organic, for red spider control, 2518, 2536k  
 parathion, 3759  
 particle size affects action of, 405, 406  
 phenyl mercury triethanol ammonium  
 lactate, 3636  
 precautions in the use of, 306, 1540q  
 8-quinolinol, 1615  
 reviews on, 403, 404, 1230, 1435, 2420,  
 3464  
 for seed disinfection—*see* Seed

# SUBJECT INDEX

Spray(s) and spraying—fungicides (*continued*)—  
 sodium orthophenylphenate (Dowicide A), 1997  
 spreaders for, 2520  
 sulphur—*see also above*, lime-sulphur—  
 injury to plants, 2166, 2324  
 organic, 2519  
 residue in soil, 176  
 a review, 1516  
 systemic, 404, 2658, 2698, 2955  
 testing, 3465  
 thiocarbamate, 1230  
 in U.S.A.—*see also above*, Canada—403  
 a verdigris-permanganate mixture, 411  
 zineb—*see above*, ethylene  
 herbicides—*see* Herbicides  
 hormone—*see* Growth substances  
 injury—  
 to apple—*see* Apple  
 to bees—*see* Bees  
 to camellia, 1931  
 to cucurbits, 2610  
 drought disposes plants to, 1222  
 to flowering plants, 3882  
 to grapefruit, 955  
 to narcissus, 887  
 to pea, 1646  
 to peach, 3478  
 to pear, 429, 430, 2535  
 to shade trees, 2570b  
 to tobacco, 1812  
 to tomato, 1717  
 to vine—*see* Vine  
 insecticides—*see also pests and hosts*—  
 absorption and translocation of, 754  
 aerosols, 422, 536, 1529  
 aldrin and dieldrin, 1540d, 1540n  
 analysis of, 1540j, 1540k  
 antimycin A., 1513  
 arsenical—*see also above*, arsenical—  
 distribution of, 420, 431q  
 injury to plants, 955, 3486  
 residue in soil, 177  
 azobenzene—*see* Red spider control  
 benzene hexachloride—*see also below*,  
 lindane—  
 analysis of, 3492b  
 for apple pests, 1523, 2522  
 banding, 2976  
 flavour affected by, 755-757, 989, 1718,  
 1784, 2530, 2651, 2741, 3021  
 insecticidal action of, 3475  
 plant response to, 414, 754, 1812, 2240,  
 3476  
 predators' response to, 2523  
 residue on plant, 1531, 1532, 3482  
 residue in soil, 2533, 3476  
 a review, 416  
 for wireworm control, 1718  
 chlordane, 415, 2977, 3478  
*p*-chlorophenyl *p*-chlorobenzenesulphon-  
 ate, 431a  
 compatibility with fungicides, 1514

Spray(s) and spraying—insecticides (*continued*)—  
 DDT—*see also below*, methoxychlor—  
 aerosols, 422  
 for apple pests, 2524  
 compatibility with nicotine, 417  
 germination not inhibited by, 76  
 injury to plants, 429, 1646, 1812, 1931  
 and red spider, 3408  
 residue on plants, 426, 559, 1532-1534,  
 1813, 2531, 2532, 3481, 3482  
 residue in soil, 2533, 2534, 3478, 3492g  
 diethyl *p*-nitrophenyl phosphate (E600),  
 2625  
 diluents for, 1522  
 dinitro *o*-sec amyl phenol, 1500  
 a DNC-mineral oil mixture, 412  
 dust, factors influencing the action of, 413  
 fluorine—*see also below*, sodium—1540w  
 fluoroarsenate zinc, 2499  
 with fungicidal action, 2526, 2849, 3759  
 fungicides as, 2518, 3468  
 glyoxalidine, 2518  
 HETP (hexaethyl tetraphosphate), 1518,  
 2591  
 in Holland, 305  
 leaf structure affected by, 146  
 lindane, 1784  
 a list of approved, 3492t  
 methoxychlor, 1540f, 3477  
 Midox, 3468  
 nicotine, 417, 1525  
 oil—  
 citrus quality affected by, 3948  
 injury to plants, 3483, 3487  
 particle size determination, 1540 l  
 organic, toxicity of, 1540h  
 ovicides—*see also below*, winter washes—  
 benzyl alcohol facilitates penetration of,  
 1524, 2521  
 summer, 2521, 2525  
 parathion—  
 action of, 1518, 2536w  
 for citrus pests, 987  
 for fruit tree pests, 2166  
 fungistatic action of, 2526, 3759  
 injury to plants, 430, 1540g, 1717, 1812  
 nematocidal action of, 1930, 3759  
 for red spider control—*see* Red Spider  
 residue on plants, 1534, 1536, 1537  
 residue in soil, 2533, 3478, 3484  
 reviews on, 419, 3471  
 toxicity to man, 3947  
 translocation of, 2594  
 vapour pressure of, 2536d  
 for vine pests, 3472-3474  
 2,3,4,5,6-pentachloroanisole, 1525  
 phosphorus compounds—*see also indi-*  
*dual compounds*—431m, 1517, 1540i,  
 2527, 2536u  
 phthalonitrile, 1525  
 precautions in the use of, 306, 1540q  
 removal of residue, 428  
 reviews on, 1435, 1519-1521

# SUBJECT INDEX

- Spray(s) and spraying—insecticides (*continued*)—  
 rotenone, 1540a, 1540e, 2536t  
 ryania, 2832k  
 schradan (bis (bisdimethylamino) phosphonous anhydride), 980, 1657, 3470, 3485, 3492 I, 3598, 3885  
 selenium, 1539, 3846, 3849, 4120  
 semicarbazones, 418  
 smoke generators for dispersal of, 2275  
 sodium fluoroacetate, 2625  
 soil, injectors for, 102, 2270  
 Solbar, 3473  
 synergistic action of structural analogues, 1284  
 with systemic action, 980, 1539, 1657, 2173, 2625, 3470, 3492u, 3598, 3787, 3846, 3885, 4120  
 tartar emetic, 2420  
 TEPP (tetraethylpyrophosphate), 536, 1518, 1531, 2591  
 tests of, 2420  
 toxaphene, 431p, 1812, 3478  
 winter washes—*see also above*, ovicides—  
 frosty weather increases action of, 407, 412  
 a review, 431o  
 protection of workers against—*see also above*, insecticides, precautions—306  
 residue—*see also particular sprays*—in  
 orchard soils, 176  
 residue on plants, determination of, 427, 1535, 1540j, 3479, 3485, 3492m  
 Springtail (*Collembola*) control, 2584  
 Sprouting broccoli, mulching, 521  
 Spurrey (*Spergula arvensis*) control, 510p  
 Squash—*see also Pumpkin and Cucurbits*—  
 borer, 1232, 4136  
 bug (*Anasa tristis*), 2609  
 downy mildew, 1637  
 fruiting of, 2605  
 vine borer (*Melittia cucurbitae*), 1639, 1640  
 St. John's wort (*Hypericum perforatum*) control, 1214, 2150  
*Stagonospora curtisii*, 1912  
 Staining, technique of biological, 109g  
 Starch—  
 determination, 587  
 synthesis, 2224  
 Starter solutions, 837, 1227, 1246  
*Statice suffruticosa*, tannin from, 3830  
 Statistical—*see also Survey*—  
 analysis, 1251, 1252, 2137, 2999, 3000, 3154  
 design of trials, 10, 1012, 1250, 1251, 1544, 2197-2202, 2283e, 3153, 3228o, 4087  
 sampling, 1237  
 Statistics, agricultural—*see Agricultural*  
*Stellaria media* control, 3539  
 Stellenbosch-Elsenburg Coll. Agric., A.R. 1949/50, 2170  
*Stellera chaemesiasme*, an insecticidal plant, 818  
*Stemona tuberosa*, an insecticidal plant, 818  
*Stemphylium*—  
*botryosum*, 3635  
*Stemphylium (continued)*—  
 leaf spot of tomato, 677, 2701, 3674f  
*Stephanitis rhododendri*, 4108  
*Stephanoderes hampei*—*see Coffee berry borer*  
*Stephanotis floribunda*, *Botrytis* sp. on, 925  
 Sterile culture of plants—*see Aseptic*  
 Stinkwort, an indicator plant for phosphate deficiency, 474  
 Stock (*Matthiola* spp.)—  
 diseases, 3916d  
 double-flowered, 845, 846  
 mosaic, 3865  
*Oidium matthiolae* on, 350  
 polyploid, 844  
 seed, growth inhibitor in, 869  
 Stomatal,—  
 guard-cells, 1267, 1331r, 2230  
 movement, 1266, 2227, 3167  
 Stone fruit—*see also separate fruit varieties and Soft fruit*—  
 aphid control, 2486  
 budding, 1360  
 containers for, 1234  
 embryo culture of, 3248, 3249  
 growing in England, 4084  
 a manual on, 4084  
 shot-hole (*Clasterosporium* sp.) of, 354  
*Verticillium* wilt of, 1474  
 Storage—*see also separate crops*—  
 air—  
 blast and vacuum cooling in, 2366, 3625  
 purification in, 232  
 atmosphere, fruit evaporation and drying potential of, 2150  
 bulb—*see Bulb(s)*  
 cellar construction, 841  
 clamps, climate in, 760, 761, 2742, 2743  
 Committee of the Swedish agric. Res. Coun., A.R. 1945/46-1948/49, 2143  
 of cuttings, 1880  
 dips, 2150, 2370, 3263  
 diseases, antibiotic emanations control—  
*see also below*, horseradish—626  
 ethylene used in, 226, 2371  
 flower—*see Flower*, cut  
 frozen pack, 687b, 687t, 1343, 1407, 1951, 2112, 2158, 2373, 3306, 3307, 3310, 4143  
 of fruit, 224-226, 2143, 2150, 2282, 2367  
 gas, 229, 230, 1216, 1398, 2158, 2174, 2369  
 heating systems for, 646, 1226  
 horseradish an antiseptic agent in, 293  
 of horticultural products, 2375r  
 Investigations, Kentville, N.S., A.R. 1949/50, 2158  
 Lab., Ottawa, Low Temp. Invest., A.R. 1949, 2158  
 of ornamental plants, 841  
 pollen, 883, 1373, 2034  
 respiration of fruit in, 225, 2282  
 seed—*see Seed storage*  
 of tropical fruit, 3969  
 of vegetables, 224, 226, 2143  
 ventilation, 1323, 2158  
 wax treatment to berry boxes, 300m

# SUBJECT INDEX

- Storage (*continued*)—  
 wraps, 221, 1467, 2174, 3121, 3301
- Storrs agric. Exp. Stat., Connecticut, A.R.  
 1949/50, 4153d
- Strataegus barbigerus*, 1167
- Strawberry—  
 aphid, 1482, 3388  
 blossoming, growth substance treatment to  
 delay, 247  
 breeding, 124  
 calcium content of plants, 3322  
 certification, 235  
 chromosome number of, 2283f  
 cloche culture of, 1409  
 crinkle, 340  
 crop and vigour measurements, 2201  
 die-back, 4135  
 diseases, 339, 2536o  
 forcing, 1341  
 growing—*see also below*, varieties—  
   in Canada, 1408  
   in England, 3313  
   in Southern Rhodesia, 2160  
   in Sweden, 250  
   in U.S.A., 248, 249, 3357b  
 herbicide injury to, 3541  
 irrigation, 250, 253, 3117, 3323  
 juice, 1407  
 "June Yellows" disorder, 3360  
 leaf spot (*Mycosphaerella fragariae*), 356  
 manuring, 250, 253, 2167  
 marketing, 3324  
 mulching, 253, 2383, 3131  
 nematodes, 1480, 2473, 2474  
 nutrition, 251  
 packing, 2009  
 pest control, 3418  
 photoperiodic response, 3173  
 planting, matted system of, 1410  
 pollination, 1411  
 red core (*Phytophthora fragariae*), 2469,  
   3141, 4119, 4149  
 red spider, 3414, 3415  
 root weevils, 2491  
 runners—  
   removal of, 252  
   storage of, 2159  
   selection of healthy, 2747d  
 spacing, 253, 1410  
 varieties—*see also above*, growing—  
   Auchincruive Climax, 3141, 3360  
   in Canada, 124  
   Du Toit, 2174  
   everbearing, 248, 253  
   for freezing, 2158  
   in Holland, 3674c  
   identification of, 3319  
   Indra, 3320  
   in Kenya, 3118  
   Madame Moutot, 2429  
   Marshall, 431h  
   Sovereign, 3387  
   trials in Norway, 3321  
   in U.S.A., 2382
- Strawberry (*continued*)—  
 variegation, 2429, 2449  
*Verticillium* wilt, 2536b  
 virus—*see also above*, crinkle and below,  
   yellow edge—  
     control by Pestox, 3492a  
     diseases in U.S.A., 2448  
     -like particles in juice, 2449  
     vectors, 1482, 3388  
   vitamin C content, 300b  
   weed control, 248, 443, 471, 489-491, 1594-  
     1596, 1603c, 1603d, 2148, 2565, 3117,  
     3131, 3496, 3538-3541, 3559e, 4135  
   yellow-edge, 431h, 3387
- Streptocarpus*—  
 azobenzene injury to, 3882  
*kewensis*, 1894
- Streptomyces*—  
*ipomoea*, 3637, 3638  
 spp., antibiotics from, 400
- Striga*—  
*hermonthica*, seed respiration and germina-  
 tion, 2558, 2559  
 spp., control of, 471, 475
- Strophanthus*—  
 cuttings, 2799  
*sarmentosus* growing in Florida, 2799  
 spp. as medicinal plants, 799, 2150  
 spp. in West Africa, 2795, 2796, 2798
- Strumeta tryoni*, 2584
- Strychnos psilosperma*, a medicinal plant, 800
- Styrax* spp., benzoin from, 1838
- Subtropical—  
 entomology, 1194  
 fruit research in South Africa, 928
- Sucrose foliage sprays, 664
- Sudan grass for green manuring, 1747
- Sugar beet, iron deficiency in, 3674j
- Sugar cane—  
 beds, 1096, 1144  
 a bibliography on, 1100  
 borer (*Diatraea saccharalis*), 1104, 1161,  
   1222, 1223, 3072  
 breeding, 1109, 11871, 3051, 3055, 3056,  
   3122, 3133, 4110  
 by-products—*see also* Sugar manufacture—  
   1123, 1126, 1127, 1169  
 carbohydrate formation, 2081, 3058  
*Ceratosomella paradoxa* on, 3051  
 composition—*see also below*, juice and leaf—  
   1129, 2076  
 copper deficiency in, 3051  
 cover crops for, 1147  
 cuttings, 1155, 3122  
*Cytospora* disease, 1160  
 dielectric constants of, 1187r  
 diseases, 1151, 1152, 1156  
 downy mildew, 4039  
 drainage, 1096, 1144  
 drought effect on, 1133, 1134, 1136  
 filter mud as a manure, 1123, 1127  
 flooding, effect of—*see also below*, water-  
   logging—4057  
 flowering, 1145, 4049, 4057



# SUBJECT INDEX

Sugar cane (*continued*)—  
 frog hopper (*Tomaspis* sp.), 1163, 3073  
 grasshopper, elegant (*Zoncerus elegans*), on, 2091  
 green manure crops for, 2093, 4052  
 greyback cane beetle (*Dermolepida* sp.), 1162, 3133  
 growing—*see also below*, varieties—  
   in Antigua, 1187q  
   in Barbados, 3052  
   in Brazil, 1102  
   in British Guiana, 1144, 2145, 2146, 3053, 3103  
   in British West Indies, 1096  
   in Cuba, 1105  
   in Guatemala, 1097  
   in India, 1110, 1223, 3121  
   in Jamaica, 3062, 3088b  
   in Leeward Islands, 3120  
   in Mauritius, 3122, 4080f  
   in Puerto Rico, 1106, 1107  
   in Queensland, 1099, 2074, 2084, 2093, 4036, 4037, 4040, 4080o  
   in Réunion, 4080q  
   in South Africa, 2181  
   in St. Kitts, 1187n  
   in Taiwan, 1111-1115, 1124, 1141  
   in Trinidad, 1104, 1121  
   in Viet-Nam, 1101  
 growth—*see also below*, stalk—  
   rate, fertilizer requirements determined by, 2085  
   and soil moisture, 3060  
   substance effect on, 2087, 2088  
 gur from, 1131, 1170  
 harvesting—*see also below*, maturity—cost of, 1149  
 harvesting machinery, 1148, 1150  
 heterosis in, 1187h  
 industry, a survey of the, 1095  
 insect injury to, 4060  
 irrigation, 1137, 1223, 2083, 3061  
 juice composition, 1130, 1134, 1223  
*Kelisia* sp. on, 1164  
 leaf—  
   anatomy, 1142  
   composition, 1119, 1223, 4055  
*Lepidiota frenchi* on, 2089  
 light effect on—*see also below*, photoperiodic—1140  
 liming, 1124, 1187u, 4051  
 machinery, 1146-1148, 1150, 3067, 4056  
 magnesia applications to, 1124  
 manuring—*see also above*, green—1096, 1116-1127, 1223, 2085, 2086, 2093, 3064, 3065, 3067, 3121, 3122, 3133, 4050, 4053, 4054, 4080t  
 maturity, estimation of, 1223  
 meteorological records for, 1132  
 minor element applications, quality not improved by, 1125  
 mite-incidence, 1187o  
 mosaic, 1102, 1103, 3068, 3088b, 3088i, 4042, 4080p

Sugar cane (*continued*)—  
 nitrogen—  
   deficiency, 1136, 4055  
   requirements, 3065  
   uptake by, 1223  
 payment systems, 1168  
*Pentodon idiota* on, 4061  
 pest control, 1151, 1159  
 phosphate requirements, 1116-1118, 1120  
 photoperiodic reaction, 2080, 4048, 4049  
*Physalospora tucumanensis* on, 4058  
 planter, evolution of the, 2111j  
 planting—*see also above*, beds—time of, 1110, 1111  
 pollen germination, 2079  
 polyploid, 2078  
 potash deficiency, 1121, 3051, 4054  
 processing—*see* Sugar manufacture  
*Pyrilla* incidence in, 1165, 1166  
 quality, factors affecting, 1125, 1135  
 rainfall effect on, 1135, 1141  
 ratoon stunting disease, 3133  
 red rot (*Colletotrichum falcatum*), 1156-1158, 1160, 1223, 3069, 4060  
 research—  
   in Java, 1098  
   in Mauritius, 2075  
   Scheme, Madras, A.R. 1947/48, 1223  
 respiration, 1139  
 rhinoceros beetle (*Strataegus barbigerus*) on, 1167  
 roots, negatively geotropic, 3059  
 rust (*Puccinia kuehnii*), 1459  
 salt tolerance, 1115  
*Scaptocoris castaneus* on, 4062  
*Scirpophaga nivella* on, 3112  
 seedlings, variation in, 1113  
 selection, 4047  
 setts, 1223, 3120, 4044  
 smut (*Ustilago scitaminea*), 1187l, 1223, 2161, 3070  
 sodium nutrition, 3066  
 soil—  
   management, 2086  
   moisture and growth, 3060  
 soils, 1096, 1123, 2084, 3062, 3063, 4050  
 spacing, 1096, 1122, 1144  
 stalk—  
   death, 1160  
   growth, 4046  
 stomata, length of, 2078  
 sucrose inversion in, 1109  
 sugar content, 2087, 2088  
 taxonomy, 3057  
 temperature effect on, 1140, 1141  
 termite control, 2092, 3112  
 tillering of, 1114, 1136, 2082  
 top/root ratio and yields, 1112  
 varieties—*see also above*, growing—  
   Barbados, 1096, 1103, 1104, 3052, 3054, 3088i  
   Coimbatore, 1101, 1102, 1131, 1223, 3112  
   College 39, 2077

# SUBJECT INDEX

- Sugar cane (*continued*)—  
 disease-resistant, 1153, 1154, 1157, 1158,  
 11871, 4039  
 Mayagüez, 1106, 1107, 3068  
 pest resistant, 1166  
 in the Philippines, 4038  
 Puerto Rico, 1106, 1107  
 in Queensland, 1108, 4036, 4037, 4040  
 in Taiwan, 4041, 4043, 4045, 4050, 4080s  
 water-logging—*see also above*, flooding—  
 1136, 3059  
 wax, 4064  
 weed control, 443, 449, 493-501, 1600, 3122,  
 3133, 3523t, 4110  
 wild, 3055, 3056  
 woolly aphid (*Ceratovacuna lanigera*), 4063  
*Xanthomonas albilineans* on, 4059  
 yellow spot (*Cercospora kopkei*), 3071  
 yields, 1112, 3052, 3054
- Sugar—  
 content of fruit, vegetables and nuts, 2076  
 determination, 21, 1725r  
 manufacture and by-products—*see also*  
 sugar cane by-products—1131, 1170,  
 1187j, 4064
- maple—  
 photoperiodic response of, 3829  
*Polyporus glomeratus* on, 3831g  
 sap composition, 2832j  
 production and consumption, 2149, 4035  
 year book, South African, 1948/49, 2181
- Sulphur—*see also* Sprays, fungicides—  
 deficiency in tomato, 2692  
 dioxide injury to plants, 3378  
 estimation, 1258  
 metabolism of plants, 1308
- Sultana—*see* Vine
- Sumac—*see* *Rhus*
- Sumatra—*see also* Indonesia—  
 benzoin production in, 1838  
 oil palm growing, 3026  
 tea growing, 3077
- Summerland, B.C.—  
 Dominion exp. Stat., Rep. 1937/48, 3135  
 Fruit and Veg. Prod. Lab. 1949/50, 2158
- Sun—  
 burn, protecting trees against, 951  
 injury to coffee, 2051  
 scald, 324, 1231, 1511, 3375
- Sunflower—  
 crown gall, 2283n  
 leaf spot (*Septoria helianthi*), 9271  
 mosaic, 1861  
 in North America, 2828  
 origin of the cultivated, 2828  
 pest control, 1862  
 tissue culture, 2265, 3211, 3213
- Sunlight, measurement of, 3229f
- Sunshine at Long Ashton, 3228i
- Surinam—  
 citrus growing, 4104  
 loafah growing, 3793
- Survey methods in horticulture or agriculture,  
 8, 9
- Swaziland Dep. Native Land Settlement,  
 A.R. 1949, 3144d
- Sweden—  
 agricultural—  
 administration, education and research,  
 109h  
 Research Coun., Storage Cttee, A.R.  
 1945/46-1948/49, 2143
- apple—  
 rootstocks, 158  
 storage, 231  
 frost damage in, 3367  
 fruit growing, 111, 1334, 3242, 3312a, 3312m  
 hort. Coll. Acad. Agric., A.R. 1949, 2193d  
 Pomological Society, 3312r  
 potato growing, 737, 742  
 strawberry growing, 250  
 vegetable variety trials in, 514
- Sweet corn—*see also* Maize—  
 budworm control, 687d  
 corn borer (*Pyrausta nubilalis*) on, 1688,  
 1725c, 2668, 2708b  
 earworm (*Heliothis armigera*) on, 640, 641,  
 687d, 1689, 1690, 2708b  
 fall armyworm (*Laphygma frugiperda*) on,  
 2667  
 growing in U.S.A., 3674r  
*Helminthosporium* leaf blight, 2666  
 hybrid seed production, 2665  
 hybrids in U.S.A., 3631  
 irrigation, 639  
 kernels—*see also below*, seed—  
 growth substance from immature, 3192  
 moisture determination in, 3634  
 manuring, 639, 2580  
 mulching, 521  
 nematodes in, 3569  
 photoperiodic response, 2664  
 pollination, 2665  
 seed—*see also above*, kernel—  
 longevity, 687p  
 production, 687f, 2665  
 ultrasonic treatment of, 1687  
 spacing, 3632  
 varieties, 3110, 3674c  
 weed control, 484, 521, 1232, 1579, 1580,  
 1592, 1593, 1603b, 2570a, 3551, 3554,  
 3559n  
 zinc deficiency, 1729, 2618
- Sweet pea—  
*Corynebacterium fascians* on, 2620  
 diseases, 3916e  
 germination, 3866
- Sweet potato—  
 black rot (*Endoconidiophora* [*Ceratostomella*]  
*fimbriata*), 645, 646  
 composition, 2673  
 curing, 2675  
 disease control, 3636  
 flower, histology of, 1725q  
*Fusarium* rot or wilt, 644, 2676, 2677, 3638  
 growing—  
 in India, 1691  
 in Uganda, 1241

- Sweet potato—growing (*continued*)—  
in U.S.A., 2669, 2670  
growth substance treatment of, 642  
harvesting, time of, 647, 2671  
internal cork, 643, 2675, 3639  
irrigation, 1227  
magnesium deficiency, 2674  
manuring, 1227, 2154, 2672, 4115  
mosaic, 1725i  
origin and distribution of, 2708f  
pollination, 1692  
potassium uptake, 2673  
pox (*Streptomyces* spp.), 3637, 3638  
quality, 687j  
scurf (*Monilochaetes infusans*), 688c, 3638  
“seed” disinfection, 3117  
sprouting, 1227  
storage, 646-648, 3639  
tuber storage rot (*Pleospora herbarum*), 3635  
variety “*Brasilera blanca*”, 2671  
weevil (*Cylas formicarius elegantulus*), 1693
- Switzerland—  
fruit growing, 3230, 3231  
horticulture in, 2283s
- Symbols for scientific publications, 3147
- Synchytrium endobioticum*, 3709, 3724a, 3724e
- Synergistic action of structural analogues, 1284
- Syringa*—*see also* Lilac—  
hybrids, 1216  
spp. as lilac rootstocks, 914
- Taeniothrips simplex*, 877, 1905-1907
- Tafo—*see* West African Res. Inst.
- Tahiti, useful plants of, 2970
- Taiwan, sugar cane growing, 4041, 4043, 4045, 4050, 4080s
- Tamarind seed kernel powder, 3087
- Tanganyika—  
Dep. Agric., A.R. 1948, 2182  
essential oils from, 1827, 1828, 1830  
wattle growing, 3105
- Tangelo, cachexia disease, 2932
- Tangerine—*see also* Mandarin—  
cover crops, 3917  
floral biology, 2920
- Tannin—  
from *Alchornea cordifolia*, 1854  
from canaigre (*Rumex* sp.), 830, 2150, 4110  
content—  
of tea, 4067  
of tobacco, 26  
of virus-infected plants, 26  
from sumac (*Rhus* sp.), 4110  
from *Statice suffruticosa*, 3830  
of vine, 2418e
- Tanymecus palliatus*, 631
- Taphrina—  
*cerasi*, 1459  
*deformans*, 353
- Tapioca—*see* Cassava
- Taraxacum*—*see also* Kok saghyz—  
*brevicorniculatum*, seed cleaning, 827  
*officinale*, bee behaviour affected by, 170  
root cuttings, 71
- Tarry fumes, vegetation damaged by, 2430
- Tarsonemus pallidus*, 3414, 3415
- Tasmania—  
fruit growing, 151, 1340  
small fruit growing, 3314
- Taxus cuspidata* transplanting, 837
- Tea—  
Ass., Indian, sci. Dep. Tocklai, A.R. 1949, 1224  
Ass., Indian, Tocklai exp. Stat., Proc. 7th annu. Conf., 3114  
bamboo species for plantations, 1865  
black rot, 1224  
blister blight, 1179, 1180, 1187s, 2097-2106, 2111 l, 2111m, 3077-3080, 3138, 4074, 4114  
brown blight (*Guignardia camelliae*), 1181, 2107  
budding, 4070  
caffeine from, 4080c  
*Cercospora theae* on, 1178  
climatic requirements, 1173  
cold resistance, 1174, 2107  
cuttings—*see also below*, leaf—1224, 3074, 4070, 4114  
defoliation, 3138  
diseases, 2111h, 2120  
growing—  
in the Belgian Congo, 2094  
in Indonesia, 1187s, 3077  
in Mauritius, 2095  
in New Guinea, 4066  
in Nyasaland, 1172, 1173, 1187i, 2176  
in Russia, 3076  
in Southern Rhodesia, 4065  
growth promoting and growth inhibiting substances in, 63  
*Helopeltis* on, 4080a, 4114  
investigations in Malaya, 4129  
irrigation, 3076, 4072  
*Lasiodiplodia theobromae* on, 2973  
leaf—  
cuttings, 2176  
*m*-inosite in, 2111k  
manufacture, 1171, 2111i, 3083, 3088h, 3088n, 4075, 4080j, 4080r, 4080u  
manuring, 1175, 1224, 2176, 3130, 3138  
nematodes, 4114  
pest control, 1224, 3138  
photosynthesis, 4068, 4069  
plucking, 1176, 1224, 3082, 3130  
production and consumption, 2149  
pruning, 1176, 2096, 2097, 2176, 3079, 3130, 4073  
red spider (*Paratetranychus bioculatus*), 3081  
sci. Sect. United Planters' Ass. Southern India, A.R. 1949/50, 3138  
seed gardens, 1172  
Seychelles grass delays growth, 1177  
shade trees for, 2103  
shading, 1224, 3130, 4068  
spacing, 2176, 3130, 4071  
spray residue on, 2102, 3080

# SUBJECT INDEX

- Tea (*continued*)—  
 tannin content, 4067  
 thread blight, 1224  
 thrips control, 3138  
 training, 3075  
 weed control, 471  
*Tecoma stans*, 1929  
*Teijsmanniodendron*, taxonomy of, 1938  
*Telfairia pedata* (oyster nut), 2160, 3672  
 Temperature—*see also* Climate, Meteorology  
   and Weather—  
     in Germany, monthly mean, 109k  
     in glasshouse, frames and cloches, 1226  
     requirements of cultivated plants, 1253  
     sum for pea, 1233, 2177  
*Tenuipalpus californicus*, 380  
*Tephrosia*—  
   *candida*, root system of, 1058  
   *vogelii*, an insecticidal plant, 817  
 Termite control, 999, 2092, 3112, 3492h  
 Terracing for soil erosion control on slopes,  
   3283  
*Tetraneura ulmi*, 1517  
*Tetranychus*—*see also* Red spider—  
   *althaeae*, 3472  
   *bimaculatus*, 379, 1500, 2591, 2593, 3408,  
     3409, 3539, 3597, 3598, 3852, 3883,  
     3894  
   *telarius*, 2590, 3846  
   *urticae*, 1498  
   *willamettei*, 2482  
 Tetraploid—*see also* Polyploid—plants, 134,  
   145, 538, 575, 927j, 945, 1021, 1045,  
   1046, 1681, 1815d, 2652, 2663, 2858,  
   2895, 3181, 3834, 4110  
 Tetrazolium derivatives, biological and chemi-  
   cal applications of, 2219  
*Texananus incurvatus*, 3916t  
 Texas agric. Exp. Stat., Rep. 1947/49, 2183  
*Theba pisana*, 2170  
*Thecaphora solani*, 1459  
*Theobroma*—*see also* Cacao—*mammosum*, 2984  
 Theobromine from cacao husks, 3985  
 Thermophilin, an antibiotic, 431g  
*Thevetia nerifolia*, 833  
*Thielaviopsis basicola*, 787, 1807, 1808, 1897,  
   2608, 2775, 2792e, 3859  
 Thinning—  
   apple blossom and fruit—*see* Apple  
   apricot blossom, 3131, 3291  
   beetroot, 2647, 2648  
   carrot, 2647, 2648  
   date, 2953  
   fruit blossom by sprays, 3291  
   peach fruit, 2350  
   pear blossom, 2342, 3291  
   pecan trees, 2408  
   rubber plantations, 1088  
 Thistle—*see also* individual species—control,  
   1564, 1571, 2546  
*Thomasiniana theobaldi*, 378, 2497  
*Thrips tabaci*, 1813  
 Thuja cuttings, 903, 2879  
 Thymelaeaceae, floral morphology, 2887k
- Tissue—  
 culture, 67, 69, 70, 1261, 1263, 1264, 1291,  
   1292, 1311, 2260-2267, 3202, 3211-3213  
 dead, determination of, 433  
 tests—*see also* individual plants under leaf—  
   17, 1305, 2907, 2908  
 Tits and wasps, 397  
 Tobacco—  
   alkaloid content—*see also* below, nicotine—  
     779, 781, 1799, 2759  
   aphid control and damage, 2780, 3757, 3758  
   ash as a fertilizer, 3740  
   blackfire (*Pseudomonas angulatum*), 788  
   black root rot—*see* below, root rot  
   black shank (*Phytophthora* spp.), 3725, 4147  
   blue mould (*Peronospora tabacina*), 2583,  
     3755  
   breeding, 2776, 2777, 3104  
   callus respiration, 109o  
   cellulase from, 2760  
   chlorine effect on, 1797  
   cigar, 1790, 1809, 2147, 3761  
   cigarette beetle (*Lasioderma serricorne*) on,  
     2173  
   composition—*see also* above, alkaloid, and  
     below, nicotine—  
     of leaf, 778, 1798, 1799, 2749, 2761, 3743,  
       3744  
     of plant, 795b, 2752, 3738  
     of seed, 2759  
   curing, 794, 1790, 1791, 1814, 2790, 2791,  
     3732, 3760, 3762a, 4110  
   damping off, 3104, 3759  
   DDT residue on, 1813  
   diseases in U.S.A. and Canada, 1800, 2767  
   etch virus, 3749  
   exp. Stat., Chagres, Chile, A.R. 1947/48,  
     3104  
   fermenting—*see* above, curing  
   flea beetle, 2780  
   frenching, 783, 4131  
   frog-eye spotting (*Cercospora nicotianae*),  
     2161  
   *Fusarium* wilt of, 2773  
   grafting, 779-781, 1875  
   Granville wilt, 3725  
   green June beetle (*Cotinis nitida*) on, 790  
   growing—*see also* below, varieties—  
     in Canada, 1790, 1800  
     in Italy, 3742  
     in Mauritius, 1798  
     in Mozambique, 3731  
     in New Zealand, 1214  
     in the Philippines, 1815e  
     in South Africa, 1792  
     in Southern Rhodesia, 769, 2147, 3732  
     in Uganda, 1241  
   harvesting, 793, 1790, 1791, 1814, 2790  
   hornworm (*Protoparce sexta*), 2780  
   leaf—*see also* above, composition—  
     anatomy, 1793  
     curl, 2792d, 3748  
     fibre, enzymatic disintegration of, 2762-  
       2766



# SUBJECT INDEX

Tobacco—leaf (*continued*)—  
 malformation, virus causes, 3750  
 -miner (*Gnorimoschema operculella*), 789,  
 791, 1214, 2788  
 organic acid metabolism in, 795f  
 roll, 782  
 spot (*Ascochyta* sp.), 2161  
 manuring, 524, 776, 777, 1801, 1802, 2147,  
 2177, 2751, 3737, 3740, 3742, 4142, 4147  
 market reporting service, 3761  
 mole cricket control, 3762e  
 mosaic, 26, 778, 786, 795d, 1710, 1802,  
 1804-1806, 1815a-1815c, 2768-2770,  
 2792b, 3746, 3751, 3752, 3762b, 3762c,  
 3762g, 3762h  
 moth (*Ephestia elutella*), 2787  
 nematodes, 792, 1809, 1810, 2147, 2782,  
 2783, 2792f, 3759, 4142  
 nicotine and nornicotine content, 780, 781,  
 1799, 3758  
 nitrogen  
 deficiency, 776, 3738  
 requirements, 775, 776  
 nutrition, 775, 1228, 2752-2754, 3741  
 Officer, S. Rhodesia, A.R. 1949, 2147  
 pest control, 789, 1222, 1812, 2779, 2780,  
 3756  
 photoperiodic reaction, 771  
 a planting machine for, 3734  
 pollination, 1794, 1795, 2750, 3728, 3729  
 potash deficiency, 3738  
 potato virus Y, 1801  
 powdery mildew (*Erysiphe cichoracearum*),  
 2774, 3754  
 priming, 793  
 production—  
 and consumption, 2149, 4144  
 economics of, 769, 793, 1228, 1792  
 research—  
 in Australia, 2150  
 in Chile, 3104  
 in Kentucky, 1228  
 in New Zealand, 1221  
 in Queensland, 2179  
 Stat., Trelawney, A.R. 1949, 4142  
 ringspot virus, 1758, 2771, 2772, 2863, 3746  
 root rot, black (*Thielaviopsis basicola*), 787,  
 1807, 1808, 2148, 2775, 2792e  
 root treatment with growth substances, 773  
 rotation crops for, 774, 2147, 4142  
 seed—*see also above*, composition—  
 -beds, 777, 1800, 1810, 1812, 2755, 2781,  
 3733, 4142  
 disinfection, 2778  
 oils, 795c  
 production, 770, 3130  
 sowing, time of, 1796  
 treatment with growth substances, 772  
 soil—  
 conditions, quality affected by, 3737  
 management, 774  
 pH, 3736  
 spacing, 2147, 4142  
 spray—*see also above*, DDT—*injury to*, 1812

Tobacco (*continued*)—  
 stem—  
 borer (*Gnorimoschema heliopa* and *G.  
 plaesiosema*), 789, 2784, 2785  
 miner (*Faustinus cubae*), 1811, 2786  
 rot (*Pythium aphanidermatum*), 2792a  
 structure, 3738  
 sterility, male, 770  
 storage pests, 2173  
 suckers, chemical suppression of, 2758, 4142  
 suckfly on, 2789  
 tannin content, 26  
 tetraploid, 1815d  
 thermoperiodicity of, 2748, 2749  
 thrips control, 1813  
 tissue culture, 1264, 2265, 3211  
 tomato ring mosaic (?) on, 795e  
 topping, 3104  
 trade of the Caribbean, 795a  
 transplanting, 773, 2757  
 tree—*see also Nicotiana glauca*—3730  
 varieties—*see also above*, growing—  
 in Canada, 2148  
 in Holland, 3674c  
 mosaic resistant—*see also above*, mosaic—  
 3104, 3752, 3762f, 4147  
 in South Africa, 3726  
 in U.S.A., 3725, 3727  
 Vamorr 48 and 50, 3762f  
 wildfire-resistant—*see also below*, wild-  
 fire—2177  
 virus—  
 leaf malformation caused by, 3750  
 symptoms, necrotic zones as, 1803  
 transmission, 1805  
 wildfire (*Bacterium tabacum*), 788, 2177,  
 2776, 2777, 3753  
 wireworm control, 1228, 3762e  
 yellow dwarf, 784, 785  
 Tocklai—*see* Indian Tea Ass.  
*Tomasia* spp., 1163, 3073  
 Tomato—  
 anthracnose (*Colletotrichum phomoides*), 673,  
 3666  
 "aucuba mosaic", 688a  
 bacterial—  
 canker, 3664  
 spotting (*Pseudomonas tomato*), 2696  
 wilt, 3110  
 big bud, 26, 3660  
 blight—  
 control—  
 chemical, 405, 406, 673, 675, 1233, 2658,  
 2699, 3665, 3666, 3711  
 economics of, 4136  
 dissemination, 1714  
 forecasts, 2583, 2728  
 resistance, 1713  
 temperature effect on, 2697, 2712  
 transmission from potato, 2727  
 boron—  
 deficiency, 88, 1707  
 tolerance, 525  
 breeding for disease resistance, 2686, 3664

# SUBJECT INDEX

- Tomato (*continued*)—  
 bunchy-top disease, 3661  
 bushy stunt, 1710  
 celery-calico virus, 3658  
 characteristics, growing conditions affect, 687e  
 consumer preferences in U.S.A., 2706  
 copper deficiency, 3652  
 crown-gall, 2708g  
 curly-top virus, 3662, 3663  
 cuttings, 1698  
 damping-off, 904  
 disease control, 1725e  
 drought resistance, 3647  
 fasciation of flower, 3657  
 flavour, BHC and, 1784  
 fluorine injury to, 1706  
 foot rot (*Phytophthora* spp.), 676, 2700  
 frost protection, 3369  
 fruit—  
   borer (*Leucinodes elegantalis*), 2703  
   colour, 1709  
   composition, 542  
   maturity determination, 671  
   set—*see below*, parthenocarp  
   size, growth substance increases, 669  
   specific gravity of, 671  
   washing, 992  
   weight per locule, 1695  
   worm (*Heliothis armigera*), 1617, 2584, 3668  
*Fusarium* wilt, 649, 2698, 3674f, 4133  
 grafting, 86, 1697, 1755, 2678, 2684, 2685, 3164, 3197  
 green—  
   harvesting of, 3653, 3654  
   vegetable bug (*Nezara viridula*) on, 599  
 grey leaf spot (*Stemphylium solani*), 677, 2701, 3674f  
 growing—*see also below*, varieties—  
   in Arkansas, 657  
   in California, 656  
   cost of, 657, 688h  
   in England, 654, 655  
   in Italy, 2682, 2683  
   in Morocco, 3674e  
 growth substance effect on—*see also below*,  
   parthenocarp—651, 669, 670, 1700,  
   3184, 3648, 3656  
 “hard core”, 1214, 1705  
 harvesting, 3653, 3654  
 heat resistance, 3647  
 heterosis in, 658, 1696  
 hybrids—*see also below*, vegetative—1695,  
   3642  
 illumination, artificial, 42, 2687, 3645, 3646  
 internal browning, 672, 1231, 2694  
 irrigation 1702  
 kromnek disease. 2170  
 leaf(ves)—  
   function, 1699  
   malformation, virus causes, 3658, 3750  
   mould (*Cladosporium fulvum*), 674, 1221,  
   3141  
 Tomato—leaf(ves) (*continued*)—  
   spot (*Septoria lycopersici*), 673, 1715  
   sucrose—*see also below*, sugar—and urea  
   sprays on, 664  
 malformation in fruit and leaf, 3657, 3658,  
   3750  
 manuring—*see also below*, sugar—543, 663,  
   1214, 2148, 2689-2691, 3648, 3650  
 melon fly on, 3669  
 mosaic, 688a, 688q, 795e, 1711, 1712  
 mulching, 521, 1608  
 nutrition, 688e, 775, 1301, 1704, 3649-3651  
 nutritive value, 3640  
 packing, 1222  
 parthenocarp induced, 209, 662, 666-668,  
   2166, 2688, 3192 3655  
 patulin action on, 402  
 pectic substances of, 1708  
 pectinesterase in, 3579  
 pest control, 1725e, 3110, 3667, 3668, 3719  
 phenological data for, 4134  
 phosphate nutrition, 3650  
 photoperiodic reaction of, 51  
 photosynthesis, 2216  
 physiological research on glasshouse, 2571  
 pinworm (*Keiferia lycopersicella*), 679, 2704  
 plant quality, 3644  
 pollination, 2687, 2708u  
 potassium deficiency, 1705, 2151  
 pots for, 1228, 2272  
 potting soil for, 1326  
 pruning, 3654, 3655  
 quality—*see also above*, plant—manuring  
   affects, 543  
 radioactive materials' effect on, 665  
 red spider control, 3670  
 ring mosaic, 795e. 1712  
 ripening, 1216, 1719  
 rogue, earliness in, 3115  
 root treatment with growth substances, 773  
 russet mite (*Vasates destructor*), 2584, 3668  
*Sclerotinia sclerotiorum* on, 529  
 seed—  
   disinfection 661  
   hybrid, 658, 660, 2708u, 3643  
   oil, 3674q  
 seedlings—*see also below*, spacing—  
   culture of isolated organs, 36  
   growth substance treatment of, 539  
   raising of, 2272  
   sugar nutrition of. 2266  
 sodium—  
   a fertilizer for, 2581  
   perchlorate injury to, 663  
 soil—  
   amendments for, 1214  
   moisture optimum, 1280  
   sterilization, 1214, 3580  
 soilless culture, 1704, 3228q  
 spacing of seedlings, 3644  
 spotted wilt, 2695, 2705  
 spray injury to, 1717  
 staking—*see also below*, trellising—3654  
 stolbur disease, 3647

# SUBJECT INDEX

- Tomato (*continued*)—  
 sugar solution for—*see also above*, leaf  
 sucrose—2266 3646, 4134  
 sulphur deficiency, 2692  
 sun scald, 1231  
 tannin content, 26  
 temperature—*see also above*, blight and  
 below, yields—requirements, 1253  
 tetraploid 3181  
 thrips, 2705  
 tissue culture, 3213  
 tobacco-mosaic, 2708a  
 training, 1701  
 transpiration, 60, 3647  
 tree (*Cyphomandra betacea*), 1234  
 trellising—*see also above*, staking—688h  
*Trichothecium* fruit rot, 2702  
 tumours, colchicine-induced, 80  
 varieties—*see also above*, growing—  
 in Argentina, 3641  
 Auchincruive, 3141  
 in Belgium, 659  
 Bonner Beste, 4116  
 disease resistant, 1221  
*Fusarium* wilt resistant, 649  
 John Baer, 1708  
 Q1, 2, 3 and 4, 2179  
 trials in Israel, 3642  
 vegetative hybrids, 2684, 2685  
*Verticillium* wilt, 357, 678  
 virus, leaf malformations caused by, 3658,  
 3750  
 vitamin C content, 1707, 2693, 4133  
 water—  
 absorption by, 1703  
 exudation, 3179, 3180  
 weed control, 485, 3551  
 wilting and transpiration, 60  
 wireworm control, 1718  
 yields, light and temperature affect, 662, 666  
 zinc deficiency, 3652
- Top working—*see* Frame working
- Town wastes—*see* Compost
- Tractors, horticultural, 100, 1318
- Tradescantia* chromosomes, colchicine and  
 sodium nucleate effect on, 109a
- Training—*see also particular plants*—fruit  
 trees—  
 as hedges, Lepage's method of, 3232  
 as spindle bushes, 213
- Transaminase in seed, 3159
- Transpiration—*see also individual plants*—  
 convection and evaporation in, 109i  
 in dioecious plants, 1846  
 estimation of, 2232, 3347, 3348  
 evapo—*see* Evapotranspiration  
 sprays to reduce, 3263  
 stomatal and internal control of, 1091
- Transplanting—*see also particular plants*—  
 defoliation by chemicals prior to, 3131,  
 3892, 3898  
 effect on plant, 7  
 fruit trees, 1335  
 machines for, 518, 1229, 1327, 2269
- Transplanting (*continued*)—  
 starter solution applied at, 837, 1227, 1246  
 wax coating to reduce transpiration during,  
 3263
- Trapa bicornis* spp., as vegetables, 2572
- Tree(s)—*see also* Ornamental shrubs and  
 trees—  
 dwarfed potted, 927y  
 measurement, instruments for, 3228r  
 and shrubs hardy in Great Britain, 2114  
 stumps, eradication of, 2569  
 for town and country in Great Britain, 2116  
 Trelawney Tobacco Res. Stat., A.R. 1949,  
 4142
- Trialeurodes vaporariorum*, 1653
- Tribolium castaneum*, 3112
- Trichilia glabra*, an ornamental and medicinal  
 plant, 1937
- Trichocereus terscheckii*, alkaloids from, 2832n
- Trichodorus* sp. in beetroot and sweet corn,  
 3569
- Tricholoma conglobatum*, an edible fungus, 608
- Trichoplusia ni*, 553
- Trichosanthes dioica* pollination, 1725j
- Trichothecium roseum*, 2702
- Trigonella foenum-graecum*, vitamin C content,  
 1724
- Trigonelline in coffee, 3012
- Trillium*, distribution of the genus, 2857
- Trinidad—  
 banana growing, 4080n  
 cacao growing and research, 1026, 1027,  
 1031, 2019  
 citrus rootstocks in, 1956  
 coconut growing, 2032  
 lime growing, 1957  
 sugar cane growing, 1104, 1121
- Triploid plants, 1950e
- Tripterygium forrestii*, an insecticidal plant, 818
- Tropaeolum*—  
 mosaic and ringspot, 838  
*tuberosum*, 3673
- Tropical—  
 agriculture, scientific progress in, 1015  
 crops, manuring, 1012  
 fruit—  
 research in South Africa, 928  
 storage of, 3969  
 trees, frost damage to, 2889  
 highlands, crops for, 2971  
 plant pathology, a bibliography of, 3970
- Products—  
 Dep. Amsterdam, A.R. 1950, 4104  
 Lab., Amsterdam, A.R. 1948 and 1949,  
 1211
- Tropics—  
 crop yields in, 2969  
 lawns in the, 926, 927i  
 vegetable growing, 3560
- Tropinota*—  
*hirta*, 371, 554  
*squalida*, 875, 1484
- Truffle spore germination, 3125
- Tuber foods of the Andes, 3673

# SUBJECT INDEX

- Tulip—*see also* Bulb(s)—  
 “blindness”, 3876  
 bulb storage, 907, 3876  
 diseases, 872  
 forcing, 1915  
 nematodes in, 872  
 package measles (*Botrytis cinerea*), 889  
 pollen longevity, 3152  
*Sclerotinia sclerotiorum* on, 529  
 white streak, 838
- Tumour inducing bacterium, a—*see also*  
 Crown gall—1932
- Tung—  
 boron toxicity, 1007  
*Botryosphaeria ribis* on, 3130  
 cold injury to, 3961  
 copper—  
 deficiency, 1008, 3960  
 -nitrogen balance, 3960  
 cover crops, 2963, 3130  
 delayed foliation, 1007  
 flowering, time of, 2965  
 fruit, biometric characteristics, 3958  
 growing—  
 in French Africa, 3957, 3963c  
 in Nyasaland, 2002, 2176  
 heat injury to, 3961  
 height, inheritance of, 2961  
 leaf composition, 1006  
 magnesium deficiency, 2964  
 manuring, 1005, 2176, 2964, 3130  
 mulching, 1004  
 nutritional requirements, 1222  
 oil, 3963c  
 planting depth, 2963  
 rootstocks, 1002, 1009, 3130  
 seed germination, 3959  
 selection, 2176  
 soil requirements, 1003  
 training, 2962  
 weed control, 2567  
 windbreaks for, 2002  
 withering, causes of, 3962  
 wound dressings for, 3130
- Tunisia—  
 apricot growing, 3235  
 Lepidoptera of, 2484  
 weeds of, 458
- Turf—*see* Lawn
- Turkey, vine growing, 3325
- Turnip—  
 black rot (*Xanthomonas campestris*), 1725n  
 phosphate uptake by, 93  
 yellowing disease, 1683, 3621
- Tylenchulus semipenetrans*, 431b, 943
- Typha latifolia* control, 464
- Typhlocyba rosae*, 3432
- Uganda Dep. Agric., A.R. 1947/48 Part II  
 and 1948/49, 1241, 3137
- Ullucus tuberosus*, 3673
- Ultrasonics for seed treatment, 1687
- Umbelliferone, beta methyl, a growth inhibitor,  
 74
- Umbelliferous plants, seed injury by *Lygus*  
*oblineatus*, 3770, 3771
- Uncinula necator*, 3405
- United States—*see also individual States*—  
 agricultural statistics, 2193f, 4145  
 apple growing, 3234  
 apple and pear consumption, 2365  
 blackberry growing, 237  
 blueberry growing, 1401  
 cherry growing, 3236  
 citrus—  
 growing, 935, 936  
 preferences, 1011a  
 date growing, 3955  
 disease investigations, 2421  
 flower growing, 927f, 2835  
 fruit varieties, 1399c  
 fungicides in, 1230  
 horticulture in, 3094  
 oil producing crops, 2824  
 ornamental plants, 2875, 2876  
 palm trees, 1998  
 peach growing, 2289  
 pecan growing, 1434e, 2407  
 pest control, 1540s  
 potato growing, 2710  
 safflower growing, 3818  
 strawberry growing, 248, 249  
 sweet potato growing, 2669, 2670  
 tomato growing, 656, 657  
 vegetable seed production, 3563  
 vine growing, 3131, 3327, 3328  
 weeds, 3520  
 workers in land-grant colleges and experi-  
 ment stations, 109v
- Urea—*see also* Growth substances—  
 foliage sprays, 664, 1071, 1231, 1232, 2177,  
 4136  
 as nitrogen fertilizer, 189
- Urena lobata*, seed germination, 1241
- Urodinychus karaweiewi*, 610
- Uromyces*—  
*caryophyllinus*, 2845  
*fabae*, 1459  
*phaseoli typica*, 2623
- Urophorus humeralis*, 2000
- Urtica* spp., control of, 1572, 1603q
- Uruguay potato growing, 691
- U.S.S.R.—*see also* Genetics—  
 apple varieties, 129-131, 133  
 apricot growing, 136-140  
 cherry growing, 141  
 citrus growing, 1011d  
 fruit growing, 121, 1342, 1350  
 garlics of, 688g  
 lemon growing, 949, 950  
 potato growing, 3679  
 tea growing, 3076  
 vine growing, 259, 260, 264, 275-278, 300g,  
 2385, 3330, 3334-3336  
 walnut growing, 297, 3355
- Ustilago*—  
*scitaminea*, 11871, 2161, 3070  
*violacea*, 2847



# SUBJECT INDEX

- Ustulina zonata*, 2120  
 Utah agric. Exp. Stat., biennial Rep. 1948/50, 4146
- Vaccinium*—see also *Blueberry. etc.—myrtillus*, transpiration of, 2232
- Valerian—  
 a medicinal plant, 4116  
 tetraploid and octoploid, 2858
- Vanilla—  
 drying and storage, 3772  
 growing in the Philippines, 2813
- Variation—  
 histogenic type of, 2833  
 in ramie, 2803  
 in strawberry, 2429, 2449
- Variety trials—see under *Fruit and Vegetables* and under *separate crops*
- Vasates destructor*, 2584, 3668
- Vegetable(s)—see also *particular vegetables*—  
 boron deficiency, 544  
 breeding, 1216  
 bug, green (*Nezara viridula*), 599, 1214  
 damping-off, 904, 1615  
 experimental station in Austria, 511  
 food value of, 195  
 gas injury to, 1613  
 grading, 1249  
 grassland rotations, 687m  
 growing—see also *below*, varieties—  
 in British Columbia, 4109  
 in Canada, 2157  
 in Holland, 3674c  
 in Indonesia, 3561  
 in the tropics, 3560  
 irrigation, 1215, 1222, 3109  
 manuring, 524, 687m, 2375a, 2579, 2580, 4139  
 marrow—see *Marrow*  
 mulching, 2582  
 nematodes, 1222  
 packing, 1619  
 peroxidase content, 687t  
 pest control, 532, 2585, 3567  
 ripening by ethylene, 226  
*Sclerotinia sclerotiorum* on, 528, 529  
 seed—  
 disinfection, 2575, 2577  
 germination, 3564, 3566  
 production—  
 in England, 1605  
 in Holland, 1604, 2574  
 in Hong Kong, 3111  
 in India, 3565  
 in U.S.A., 3563  
 storage of fresh, 224, 226, 2143  
 storage, frozen pack, 687t, 1343, 2112, 4143  
 sugar content and determination, 1725r, 2076  
 trade in the Caribbean, 687h  
 transplanting, 1327  
 transport, 1399a, 1620  
 variety(ies)—see also *above*, growing—  
 in Canada, 1607  
 for freezing, 516
- Vegetable(s)—variety(ies) (*continued*)  
 in Kenya, 3118  
 in New York, new, 688t  
 trials—  
 in Austria, 511, 513  
 in Malaya, 515  
 in Pennsylvania, 3562  
 in Scotland, 3148  
 in Sweden, 514  
 in Vermont, 687r  
 weed control, 1581, 1582, 1584, 1603a  
 weevil (*Listroderes obliquus*), 533, 1616, 3109  
 white fringed beetle (*Graphognathus* spp.) on, 535
- Venezuela—  
 cacao growing in, 3975  
 flora of, 2131  
 guava growing, 2055  
 tonka bean growing, 1843
- Venturia—  
 cerasi, 1459  
 inaequalis—see *Apple scab*  
 pirina—see *Pear scab*
- Veratrum—  
 nigrum, an insecticidal plant, 818  
 viride, a medicinal plant, 1824
- Verbena, polyploid, 844
- Verbena, taxonomy of, 1938
- Vermiculite, horticultural uses of, 1226, 1317, 2835
- Vernalization—  
 of beetroot, 2645  
 of biennials, 37  
 of chrysanthemum, 1883  
 in plant breeding, 2573  
 of potato, 705, 709
- Veronica, diseases of shrub, 927c
- Verticillium—  
 albo-atrum, 678, 1468, 1716, 3807  
 cinerescens, 1716, 2845  
 dahliae, 1888  
 hemileiae, 1064  
 malthousei, 602  
 wilt—  
 of hop, 811  
 of rose, 1236, 4108  
 soil pH does not greatly affect, 357  
 of stone fruit, 1474  
 of strawberry, 2536b  
 of tomato, 357
- Vesperus xatarti, 1490
- Vetiveria zizanioides, an essential oil plant, 3810, 3811
- Viburnum—  
 lantana, seed germination of, 2877  
 Sphaceloma viburni on, 2887
- Victoria, Aust., fruit growing, 3312i
- Viet-Nam, sugar cane growing, 1101
- Vigna sesquipedalis, 577, 2708e
- Vine—  
 anthracnose (*Sphaceloma ampelinum*), 3405  
 black rot (*Guignardia bidwellii*), 2470  
 black spot, 358

# SUBJECT INDEX

## Vine (*continued*)

- blossoming, growth substance treatment to delay, 247
- boron application after grafting, 1417
- Botrytis cinerea*—see below, grey mould
- breeding, 391, 1412, 1413, 2389, 2418i, 3334
- budding, 2391, 2394
- chloride injury to, 2401
- a climate indicator, 15
- cochylis control, 2166
- composition of shoots, 191
- Congress, International, 254, 300i
- court-noué disease, 290
- cover crops, 282, 3345
- crown-gall, 2264
- cuttings, 1415, 2391, 2392, 2394, 2397
- direct-producer, 2388
- disease control—see also below, fungicides—  
1437, 1540v, 3492c, 3492e
- downy mildew (*Plasmopora viticola*), 411,  
1477, 1478, 3404, 3405, 3466
- eudemis control, 2166, 3474
- fanleaf disease, 342
- flower—see also above, blossoming, and  
below, inflorescences—  
biology, 300e  
drop, growth substances increase, 289
- frost—  
action on buds, 2283x  
damage, 277, 285, 1423  
protection, 275-277  
resistance, 1414, 2418a, 3334-3336
- fungicides for—see also above, disease  
control—1231, 1233
- grafting, 270-273, 1416, 1417, 2392, 2395,  
2418d, 3340, 3341
- grape—  
colour changes caused by mutation, 3333  
composition, 2387, 3349  
maturity, growth substance treatment  
hastens, 288  
saccharose content, 292
- seed—  
germination, 2390  
oil, 295
- table—  
breeding, 1413  
fruitfulness, 287  
glasshouse, 287, 1226  
grey mould, 2471, 2472
- growing—  
in Belgium, 2418h  
in Italy, 261  
in Rhodes, 1413  
in Victoria, Aust., 267  
throughout the world, 255
- manuring, 1418, 2174
- mealy bug (*Pseudococcus* and *Dactylo-  
pius* spp.) control, 1494, 1495
- pollination, 267
- a punnet for, 2174
- quality, 291
- storage, 293, 2174, 2366

## Vine—grape—table (*continued*)

- topping, 2174
- yeasts on, 2341
- grey mould (*Botrytis cinerea*), 2471, 2472,  
3474
- growing—see also above, table, and below,  
varieties—  
in Argentina, 1333  
in the Belgian Congo, 3331  
in Belgium, 3331  
in Brazil, 3329  
in California, 258, 2418g  
economics of, 256, 258  
in England, 257, 294  
in Italy, 256, 261, 262, 2386  
a manual on, 1192  
in Morocco, 2388  
northern boundary of, 3330  
in Russia, 259, 260, 264, 275-278, 300g,  
1414, 2385, 3330, 3334-3336  
in South Africa, 1437  
in Turkey, 3325  
in U.S.A., 3131, 3327, 3328  
throughout the world, 2384  
in Yugoslavia, 263
- growth substance effect on, 247, 288, 290,  
1612, 2166, 2418b, 2418c
- harvesting, 1424, 1425
- herbicide injury to, 1612
- infectious degeneration, 341, 3390
- inflorescences, development of, 3337
- irrigation, 181, 1420, 3344, 3346
- layering, 2393
- leaf, "oil spot" of, 3374
- manuring, 280, 1418, 2166, 2170, 2174, 2398,  
2399, 3344
- mineral deficiency, 280
- mites (*Eriophyes*, *Tenuipalpus*, *Calepitrimerus*  
spp.), 380
- mosaic, necrotic, 343
- oidium—see below, powdery mildew
- parthenocarp, 288, 289, 1421, 3131
- pest control, 1540v, 3472, 3473, 3492e
- phenological data for, 274, 4134
- phylloxera control and resistance, 391, 1505,  
2503
- Pierce's disease, 1456, 3389
- planting, 275, 300c, 3357e
- pollination, 267, 3343
- potash deficiency, 2400
- powdery mildew (*Uncinula necator*), 411,  
3405, 3492d
- pruning, 283-285, 1232, 1422
- raisin production, world, 4105
- red spider, 2476, 3416, 3472, 3473
- reserve materials, inversion of, 2402
- root growth, 281
- rootstock—  
cuttings, 268, 269, 271, 2394  
-scion incompatibility, 273
- rootstocks, 263, 266, 2396, 3339
- salt tolerance, 278, 2401
- seed germination, 288, 3338
- seedlings, 1412, 3342

Vine (*continued*)

- soil—
  - conservation, 1419
  - cultivation, machines for, 3312p
  - moisture—
    - optimum, 1280
    - response to, 181
  - saline—*see also above*, salt—278
  - sickness, 279
- spray injury, 1233, 2166, 2418b, 2418c
- spraying, equipment for, 425
- starch content, 191
- stems—
  - di- and polysaccharide effect on, 300k
  - invertase and amylase effect on, 300h
- sultana drying, 3350
- tannins and pigments of, 2418e
- topping, 2174
- training, 284-286
- transpiration, 3347, 3348
- tying, 2166
- varieties—*see also above*, grape, table, growing, and growing—
  - Concord, 1233, 3336
  - frost resistant, 1414, 3334-3336
  - in Greece, 2387
  - identification of, 2387
  - in Italy, 262
  - Mičurin, 264
  - Muscat, 2418h
  - new, hastening the raising of, 270
  - Pino černý, 265
  - in Portugal, 3332
  - Russkii Konkord vine, 3336
- Vesperus xatarti* on, 1490
- weed control, 486, 2566, 3496
- white rot (*Coniothyrium* or *Coniella diplo-diella*), 2166, 3406
- Viola riviniana* and *Viola reichenbachiana*, 1895
- Violet(s)—
  - diseases, 3916b, 3916c
  - in England, 927x
  - a manual on, 2138
  - nematodes, 3838
- Virginia agric. Exp. Stat., A.R. 1949/50, 4147
- Virus—*see also scientific names and hosts*—
  - detection by staining, 1449
  - disease control by guanazolo, 3747
  - diseases—
    - of fruit, 329, 3379
    - manuals on, 1190, 2132, 4100
    - systemic treatment of, 2445
  - indicator plants, 1757, 1758
  - infected plants, ethylene production by, 2437
  - infection through root, 1710
  - inhibitor in cucumber, 2708v
  - inoculum, micropipette for measuring, 3223
  - a non-systemic, 619
  - particles, 2792c, 3745, 3762g
  - the pre-immunity question, 3751
  - serology, 2720, 3492p
  - spread in the nursery, 1450
  - translocation, 3228j

Virus (*continued*)

- transmission by dodder, 337, 1877
- tumor tissue, coconut milk stimulates growth of, 1287
- vectors—
  - aphids as—*see* Aphid(s)
  - grasshoppers as, 3746
  - an index of, 3380
  - leafhoppers as—*see* Leafhopper
  - mealy bugs as, 1031, 2024-2026, 3140
- Vitamin—
  - A—*see* Carotene and individual plants under vitamin A
  - B applied in tobacco seedbeds, 2755
  - C—*see also* Ascorbic acid and individual plants—
    - content—
      - and boron, 1707
      - and carbohydrate concentration in leaf, 519
      - factors affecting, 835
      - growth substances affect, 2250
      - and molybdenum deficiency, 1611
      - in plant development, significance of, 2283q
    - Kb for frost protection, 3371
    - treatment, growth substance plus, 3187, 3188
- Viticulture—*see* Vine growing
- Volatile organic substances, roots absorb, 39
- Wädenswil Research Station, work at, 2196
- Wageningen—
  - agric. Coll., publications issued from, 4153e
  - horticultural days at, 3139
  - Inst. hort. Tech., A.R. 1944/48 and 1949, 1226
  - Inst. for the storage and processing of horticultural produce, 224
- Wales, seed potato growing, 1726
- Wallflower—
  - diseases, 3916d
  - tetraploid, 844
- Wallis Island, insect pests of, 2975
- Walnut(s)—
  - aphid (*Chromaphis juglandicola*), 1483
  - Bacillus coli* control, 1458
  - bacterial blight (*Xanthomonas juglandis*), 3492o, 4110
  - blackening, internal, 3488
  - budding, 298
  - codling moth control, 385, 3488
  - frost—
    - damage, 1428
    - resistance, 3356
    - susceptibility and protoplasm separation, 33
  - Gnomonia leptostyla* on, 300a
  - grafting, 1429-1431, 3357a, 4108
  - growing—
    - in Holland, 2409
    - in Russia, 297, 3355
  - hydrojuglone glucoside in, 2415-2417

# SUBJECT INDEX

## Walnut(s) (continued)

- irrigation, 1433
- kernels, pasteurization of, 1458
- metaxenia in the black, 2412
- nitrogen deficiency, 1433
- nut weevil control, 3488
- pollen germination, 299
- ripening, ethylene for, 2414
- rootstocks, 1432, 2413
- seed germination, 1428
- soil requirements, 173
- twin, 2411
- varieties at East Malling, 2410
- vitamin C, identification of apparent, 2417
- Washing fruit, machine for, 992
- Washington agric. Exp. Stat., Pullman, A.R. 1946/47. 1947/48 and 1948/49, 4153o

## Wasp(s)—

- damage to fig, 2345
- and tits, 397

## Water—see also individual plants—

- adhesion to leaves, 59
- content—
  - of leaves, 58
  - of seed, 61
- culture—see Soilless culture
- exudation, 3179, 3180
- gardening, 3098
- hyacinth (*Eichhornia crassipes*) control, 462, 1597, 1603 l, 2560, 2570e, 3525, 3533
- intake—
  - after wilting, 60
  - growth substances affect, 66, 1291
  - interaction of porous materials and, 1197
  - movement in plants, 52-55, 57
  - penetration and soil structure, 2906
  - as a structural material in plants, 3178

## Watercress—

- culture, 3629
- growing in U.S.A., 3628
- seed germination, 3630
- tetraploid, 2858
- as weed, control of, 464

## Watering pot plants, wicks for, 1873

## Wattle (*Acacia* spp.)—

- bagworm (*Acanthopsycha junodi*), 2173
- growing in Tanganyika, 3105
- gum constituents, 2832o
- propagation, 3896
- Res. Inst., A.R. 1950, 4148

## Wax—

- coating, applications of, 3263
- mould in berry boxes controlled by, 300m
- from *Rhus* spp., 1868, 1869
- sprays, cherry size increased by, 205
- sugar cane, 4064

## Weather—see also Climate, Meteorology,

- Rainfall and Sunshine—
- and Food, 1331p
- in Kent 1950, 2283u

## Weed(s)—see also particular crops and weeds,

- Herbicides and Woody plants, control of—
- of Canada, 459, 2570c

## Weed(s)—(continued)

### control—

- in agricultural crops, 435
- of annual, 2545
- of aquatic, 463, 464, 477
- biological, 1214, 1568, 1569, 2150, 2173
- in Britain and Western Europe, 510t
- in bulbs, 2159, 3131
- in Canada, 510b
- Conference coord. Cttee, N.E.W.C.C. Rep. 1951 and 1950, 1542, 3496
- Conference, recommendations of the North central, 1543
- cultural and chemical practices combined, 510k
- by electricity, 456
- in fruit plantings, 4131
- by geese, 248, 3538
- in Indonesia, 1597, 1598
- in lawns, 1603h, 1603k
- in nurseries, 2564, 3535
- of perennial, 434, 436, 444, 461, 510u
- the physiology of, 510e
- reviews on, 3497, 3498, 3505, 3559m
- on road sides, 455, 1603e, 1603s
- by soil fumigation, 469, 1228, 2541
- by soil management, 510k, 2570d
- by soil treatment—see Herbicides, soil application
- in U.S.A., 1560
- in vegetables, 1581, 1582, 1584, 1603a
- investigations, a bibliography of, 3495
- problem, a book on the, 4095
- root study in perennial, 2548
- seed—
  - descriptions of, 457, 510i
  - germination, 510j, 510 l, 1603n
  - oil from, 836e
- as soil improvers and indicators, 3494
- of Tunis, 458
- of U.S.A., 3520

## West—

- African Cacao Res. Inst. Tafo, A.R. 1948/49, 3140
- of Scotland agric. Coll., A.R. 1949/50, 3141
- Virginia agric. Exp. Stat., biennial Rep. 1948/50 and 1946/48, 4149, 4153p
- Western Province Fruit Res. Stat., A.R. 1949/50, 2174

## White grub—see also Cockchafer—control,

- 1485, 3915

## Wick for watering pot plants, 1873

## Willow scale insect (*Chionaspis salicis*), 905

## Wilting, water intake as affected by, 60

## Windbreaks—

- on farms, 2436
- for frost protection, 1445
- in Russia, 1446
- in Siberia, 2536q
- trees for, 117, 135, 326-328, 997, 1540y, 2002, 3137
- for vegetables, 12

## Windburn, wax coating evergreens to prevent winter, 3263



# SUBJECT INDEX

- Wine making in England, 294
- Wireworm control—*see also particular crops*—  
752, 753, 2708p, 2741, 3570
- Wisconsin agric. Exp. Stat., A.R. 1947/48 and  
1948/49, 3144e
- Wood—  
preservatives, 1226  
shavings, pots from, 4116
- Woodland management, 3151
- Woody plants—*see also individual species*—  
control of undesirable, 503-509, 510w,  
510x, 1601, 1602, 1603f, 1603y, 2568,  
3528-3533
- Wound—  
dressings for *Hevea*, 4033  
healing—*see* Pruning
- Wye College, Kent, Dep. Hop Res., A.R. 1950,  
4153q
- Wyoming agric. Exp. Stat., A.R. 1948/49, 4150
- Xanthium* spp. as oil plants, 1863, 3820
- Xanthomonas*—  
*albilineans*, 4059  
antibiotics inhibit, 3393  
*campestris*, 1725n  
*phaseoli*, 401, 2621  
*pruni*, 3392
- Xanthophyll, magnesium deficiency causes  
loss of, 92
- Xerophytic plants, osmotic pressure of, 1279
- Yam bean (*Pachyrhizus erosus*), 2819, 2826
- Yearbooks—  
agric. Statist. 1948 and 1949, 2155, 2156  
Boskoop Soc. Trial Garden 1950, 4108  
Danish hort. Soc. 1950, 2151  
Food agric. Statist., F.A.O., 1948 and 1949,  
2155, 2156  
Fruit annual, 2184
- Yearbooks (*continued*)  
Fruit-Grower 1951, 4117  
South African Sugar 1948/49, 2181
- Yeasts, fruit, 2341
- Yerba mate (*Ilex paraguariensis*)—  
caffeine from, 2832b  
cuttings, 2110
- Yew beetle (*Otiorrhynchus sulcatus*), 1236
- Yucca, 2831
- Yugoslavia, vine growing, 263
- Zabrotes subfasciatus*, 598
- Zantedeschia aethiopica*—*see* Arum lily
- Zanzibar—  
Dep. Agric., A.R. 1949, 2188  
and Pemba, ornamental plants, 2136
- Zephyranthes rosea*, gregarious flowering, 3916m
- Zinc—  
deficiency—  
and aldolase activity, 2426, 3208  
in apple, 315, 1256, 2426, 2427  
in bean, 2618  
in cacao, 3980  
in cherry, 315, 2426  
in citrus, 1968  
in fruit trees, 315-317, 1313  
in horticultural crops, 4146  
in orange, 2915  
in pear, 1256, 2426  
in sweet corn, 1729, 2618  
in tomato, 3652  
determination, 20, 1256, 1259, 2206, 2283p  
role of, 3228e
- Zinnia—  
damping-off, 927s  
double-flowered, 846
- Zizeeria labradus*, 1653
- Zizyphus sativa* spp. as vegetables, 2572
- Zoncerus elegans*, 2091
- Zoysia matrella* for lawns in the tropics, 926,  
927i

**List of Publications, other than books, regularly examined in the compilation of Horticultural Abstracts**  
**—with special reference to Vol. XXI, 1951.**

N.B.—This does not include books or publications, occasional numbers of which have been brought to the attention of the Bureau.

It is, moreover, inevitable that some of the publications listed will have ceased to appear or will have changed their names or have become temporarily unavailable at the date of publication of this index.

<i>Publication</i>	<i>Suggested abbreviation</i>
Abstracts on Agricultural and Horticultural Engineering, Silsoe, Beds.	Abstr. agric. hort. Engng
Abstracts from Current Scientific and Technical Literature, London	Abstr. curr. sci. tech. Lit.
Acta Agriculturae Scandinavica, Stockholm*	Acta Agric. Scand.
Acta Agronomica, Palmira, Colombia	Acta Agron. Palmira
Acta Entomologica Fennica, Helsinki	Acta ent. fenn.
Acta Tropica, Basel	Acta trop.
Acta Universitatis Agriculturae et Silviculturae Brno, Czechoslovakia	Acta Univ. Agric. Silvic. Brno
Administration Report Ceylon Director of Agriculture, Colombo	Administ. Rep. Dir. Agric. Ceylon
Advances in Agronomy, New York	Advances Agron.
Advances in Chemistry Series, Washington	Advances Chem. Ser.
Advisory Circular Rubber Research Scheme, Peradeniya, Ceylon	Adv. Circ. Rubb. Res. Sch. Ceylon
Advisory Leaflet Department of Agriculture for Scotland, Edinburgh	Adv. Leafl. Dep. Agric. Scot.
Advisory Leaflet Ministry of Agriculture, London	Adv. Leafl. Minist. Agric. Lond.
Advisory Leaflet National Agricultural Advisory Service, London	Adv. Leafl. N.A.A.S. Lond.
Agrártudományi Egyetem Kert-és Szőlőgazdaságtudományi Karának Közleményei, <i>see</i> Bulletin of the Faculty of Horticulture and Viticulture, Budapest	Agri hort. Genet.
Agri Hortique Genetica, Weibullsholm, Sweden	Agric. venezol.
Agricultor Venezolano, Caracas, Venezuela	Agric. Venezie
Agricoltura delle Venezie, Venice	Agric. téc. Chile
Agricultura Técnica, Santiago, Chile	Agric. trop. Bogotá
Agricultura Tropical, Bogotá, Colombia	Agric. Chemls
Agricultural Chemicals, Baltimore, Md	Agric. Econ. Rep. Hawaii agric. Ext. Serv.
Agricultural Economics Report University of Hawaii, Agricultural Extension Service, Honolulu	Agric. Ext. Circ. Hawaii agric. Ext. Serv.
Agricultural Experiment Activities of the State [Finland] Publication, <i>see</i> Valtion Maatalousk . . .	Agric. Gaz. N.S.W.
Agricultural Extension Circular Hawaii Agricultural Extension Service, Honolulu	Agric. J. Dep. Agric. Fiji
Agricultural Gazette of New South Wales, Sydney	Agric. Lit. Refs Boron
Agricultural Journal Department of Agriculture, Suva, Fiji	Agric. Newsl.
Agricultural Literature References to Boron and Minor Elements, issued quarterly by Borax Consolidated Ltd., London	Agric. Statist. Lond.
Agricultural Newsletter, Wilmington, Del.	Agric. Statist. U.S.
Agricultural Statistics, London	Agric. Handbook Agric. Res. Admin. U.S. Dep. Agric.
Agricultural Statistics, U.S. Department of Agriculture, Washington, D.C.	
Agriculture Handbook, Agricultural Research Administration U.S. Department of Agriculture, Washington, D.C.	

\* Replaces Acta Agriculturae Suecana.

# LIST OF PUBLICATIONS

## Publication

Agriculture Information Bulletin U.S. Department of Agriculture, Washington, D.C.  
 Agriculture. Journal of the Ministry of Agriculture, London  
 Agriculture Monograph U.S. Department of Agriculture, Bureau of Agricultural Economics, Washington, D.C.  
 Agriculture. Revue Trimestrielle de la Corporation des Agronomes de la Province de Quebec, Canada  
 Agrobiologija (Agrobiology), Moscow [Russian]  
 Agronomia Angolana, Luanda, Angola  
 Agronomia Lusitana, Sacavem, Portugal  
 Agronomie Tropicale. Publication Mensuelle du Ministère des Colonies, Nogent-sur-Marne  
 Agronomy Journal, Madison, Wis.  
 Agriculture Pakistan, Karachi  
 Almanaque Agrícola de Guatemala, Guatemala  
 American Fruit Grower, Cleveland, Ohio  
 American Journal of Botany, Lancaster, Pa  
 American Nurseryman, Chicago  
 American Potato Journal, New Brunswick, New Jersey  
 American Potato Yearbook, New York  
 American Tomato Yearbook, New York  
 Anais da Escola Superior de Agricultura "Luiz de Queiroz", Piracicaba, São Paulo  
 Anais do Instituto Superior de Agronomia, Lisbon  
 Anales de Edafología y Fisiología Vegetal, Madrid  
 Anales de la Escuela de Peritos Agrícolas, Barcelona  
 Anales de la Estacion Experimental de Aula Dei, Zaragoza  
 Anales del Jardín Botánico de Madrid  
 Analyst, London  
 Analytica Chimica Acta, Amsterdam  
 Analytical Chemistry, Easton, Pa  
 Annales Academiae Scientiarum Fennicae Ser. A. IV. Biologica, Helsinki, *see* Suomalaisen Tiedeakademian Toimituksia. Biologica  
 Annales Academiae Scientiarum Fennicae Ser. A. II. Chemica, Helsinki, *see* Suomalaisen Tiedeakademian Toimituksia. Chemica  
 Annales Bogorienses, Bogor, Indonesia  
 Annales de l'École Nationale d'Agriculture de Montpellier, Montpellier  
 Annales Entomologici Fennici, *see* Suomen Hyonteistieteellinen Aikakauskirja  
 Annales des Épiphyties, Paris  
 Annales de Gembloux, Gembloux, Belgium  
 Annales de l'Institut Agricole et des Services de Recherches et d'Expérimentation Agricoles de l'Algérie, Alger.  
 Annales de l'Institut National Agronomique, Paris  
 Annales de l'Institut National de la Recherche Agronomique. Série A. Annales Agronomiques, Paris  
 Annales du Service Botanique et Agronomique de la Direction des Affaires Économiques de Tunisie, Tunis  
 Annales Universitatis Mariae Curie-Skłodowska, Section E, Lublin, Poland  
 Annali della Facoltà di Agraria, Perugia  
 Annali della Facoltà di Agraria di Portici dell' Università di Napoli, Portici  
 Annali della Sperimentazione Agraria, Roma  
 Annali della Stazione Sperimentale di Viticoltura ed Enologia, Conegliano  
 Annals of Applied Biology, Cambridge

## Suggested abbreviation

Agric. Inf. Bull. U.S. Dep. Agric.  
 Agriculture, Lond.  
 Agric. Monogr. U.S. Dep. Agric., Bur. agric. Econ.  
 Agriculture, Quebec  
 Agrobiologija  
 Agron. angol.  
 Agron. lusit.  
 Agron. trop.  
 Agron. J.  
 Agric. Pakistan  
 Alman. agric. Guatemala  
 Amer. Fruit Gr  
 Amer. J. Bot.  
 Amer. Nurseryman.  
 Amer. Potato J.  
 Amer. Potato Yearb.  
 Amer. Tomato Yearb.  
 An. Esc. sup. Agric. "Luiz de Queiroz". Piracicaba  
 An. Inst. sup. Agron. Lisbon  
 An. Edaf. Fis. veg. Madrid  
 An. Esc. Perit. agric. Barcelona  
 An. Estac. exp. Aula Dei  
 An. Jard. bot. Madrid  
 Analyst  
 Analyt. chim. Acta  
 Analyt. Chem.  
 Ann. bogor.  
 Ann. Éc. Agric. Montpellier  
 Ann. Épiphyt.  
 Ann. Gembl.  
 Ann. Inst. agric. Algér.  
 Ann. Inst. nat. agron.  
 Ann. agron. Sér. A  
 Ann. Serv. bot. agron. Tunis  
 Ann. Univ. Mariae Curie-Skłodowska, Sect. E  
 Ann. Fac. Agrar. Perugia  
 Ann. Fac. Agrar. Portici  
 Ann. Sper. agrar.  
 Ann. Staz. sper. Vitic. Conegliano  
 Ann. appl. Biol.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Annals of Botany, London	Ann. Bot. Lond.
Annals and Magazine of Natural History, London	Ann. Mag. nat. Hist.
Annals of the Royal Agricultural College of Sweden, Uppsala (Kungl. Lantbrukshögskolans Annaler)	Ann. roy. agric. Coll. Sweden
Annuaire de la Faculté d'Agronomie et de Sylviculture de l'Université de Skopje, Yugoslavia	Annuaire Fac. Agron. Sylvic. Skopje
Annual Conference New Zealand Fruitgrowers' Federation Ltd., Wellington	Annu. Conf. N.Z. Fruitgr. Fed.
Annual Report Agricultural Research Institute of Northern Ireland, Hillsborough	A.R. Hillsborough agric. Res. Inst. N. Ireland
Annual Report Arizona Agricultural Experiment Station, Tucson	A.R. Ariz. agric. Exp. Stat.
Annual Report of the Australia Canned Fruit Board, Melbourne	A.R. Aust. Canned Fruit Bd
Annual Report Barbados Department of Science and Agriculture, Bridgetown	A.R. Barbados Dep. Sci. Agric.
Annual Report Basutoland Department of Agriculture, Bloemfontein	A.R. Basutoland Dep. Agric.
Annual Report Bermuda Department of Agriculture, Paget East	A.R. Bermuda Dep. Agric.
Annual Report Botanic Gardens Department, Singapore	A.R. Bot. Gdns Dep. Singapore
Annual Report British Columbia Department of Agriculture, Victoria, B.C.	A.R. B.C. Dep. Agric.
Annual Report British Columbia Department of Agriculture, Agricultural Statistics Report, Victoria, B.C.	A.R. B.C. Dep. Agric. agric. Statist.
Annual Report British Columbia Department of Agriculture, Climate of British Columbia, Victoria, B.C.	A.R. B.C. Dep. Agric. Climate
Annual Report British Council, London	A.R. Brit. Coun. Lond.
Annual Report (Administration) Director of Agriculture British Guiana	A.R. (Administ.) Dir. Agric. Brit. Guiana
Annual Report (Divisional) British Guiana Department of Agriculture	A.R. (Divl) Brit. Guiana Dep. Agric.
Annual Report British Honduras Department of Agriculture, Belize	A.R. Brit. Honduras Dep. Agric.
Annual Report British West Indies Central Sugar Cane Breeding Station, Barbados	A.R. B.W.I. centr. Sugar Cane Breed. Stat. Barbados
Annual Report Brooklyn Botanic Garden, New York	A.R. Brooklyn bot. Gdn
Annual Report Bureau of Sugar Experiment Stations, Brisbane, Queensland	A.R. Bur. Sugar Exp. Stats, Brisbane
Annual Report Canada Department of Agriculture, Canadian Committee on Food Preservation, National Research Council of Canada, Ottawa	A.R. Canada Dep. Agric., Canad. Cttee Food Pres., N.R.C.
Annual Report Canada Department of Agriculture Forest Insect Survey, Division of Entomology, Science Service, Ottawa	A.R. Canada Dep. Agric. For. Insect Surv.
Annual Report Canada Department of Agriculture, Fruit and Vegetable Products Research Committee, Ottawa	A.R. Canada Dep. Agric. Fruit Veg. Prod. Res. Cttee
Annual Report Canada Department of Agriculture, Science Service, Ottawa	A.R. Canada Dep. Agric. Sci. Serv.
Annual Report Canada Minister of Agriculture, Ottawa	A.R. Canada Minist. Agric.
Annual Report Canada National Research Council, Ottawa	A.R. nat. Res. Coun. Canada
Annual Report Cawthron Institute, Nelson, N.Z.	A.R. Cawthron Inst.
Annual Report Chemical Society, London	A.R. chem. Soc. Lond.
Annual Report Cheshunt Experimental and Research Station, Cheshunt, Herts., England	A.R. Cheshunt exp. Res. Stat.
Annual Report Coconut Research Scheme, Ceylon, Colombo	A.R. Coconut Res. Sch. Ceylon
Annual Report Coffee Research and Experiment Station, Lyamungu, Moshi	A.R. Coffee Res. Exp. Stat. Lyamungu
Annual Report Colonial Development Corporation, London	A.R. colon. Develop. Corp. Lond.



# LIST OF PUBLICATIONS

## *Publication*

Annual Report Colonial Insecticides (Fungicides and Herbicides) Committee, London  
 Annual Report Colonial Research Council, London  
 Annual Report Colorado Agricultural Experiment Station, Fort Collins  
 Annual Report Commonwealth Agricultural Bureaux, London [now Farnham Royal, Bucks]  
 Annual Report of the Commonwealth Dried Fruit Control Board, Melbourne, Australia  
 Annual Report Commonwealth Scientific and Industrial Research Organization, Australia, Melbourne  
 Annual Report Cornell University Agricultural Experiment Station, Ithaca, N.Y.  
 Annual Report Cyprus Department of Agriculture, Nicosia  
 Annual Report Delaware State Board of Agriculture, Dover  
 Annual Report Dominica Department of Agriculture, Roseau  
 Annual Report Dominion Experimental Farms, Department of Agriculture, Ottawa  
 Annual Report East African Agriculture and Forestry Research Organization, Nairobi  
 Annual Report East Malling Research Station, near Maidstone, Kent, England  
 Annual Report Edinburgh and East of Scotland College of Agriculture, Edinburgh  
 Annual Report Éire Department of Agriculture, Dublin  
 Annual Report Fernley Observatory, Southport  
 Annual Report Fiji Department of Agriculture, Suva  
 Annual Report Florida Agricultural Experiment Station, Gainesville  
 Annual Report Food Investigation Board, London  
 Annual Report, Forestry Commission, on Forest Research, London, *see* Report on Forest Research, London  
 Annual Report Forestry Commissioners, London  
 Annual Report Fruit and Vegetable Preservation Research Station, Campden, Gloucestershire, England  
 Annual Report Georgia [Agricultural] Experiment Station, Experiment  
 Annual Report Gold Coast Department of Agriculture, Accra  
 Annual Report Gulval Experimental Station, Cornwall  
 Annual Report Hong Kong Senior Agricultural Officer  
 Annual Report Horticultural Education Association\*  
 Annual Report Idaho Agricultural Experiment Station, Moscow, Idaho  
 Annual Report Illinois Agricultural Experiment Station, Urbana  
 Annual Report Imperial College of Tropical Agriculture, St. Augustine, Trinidad  
 Annual Report Imperial Forestry Institute, Oxford  
 Annual Report Indian Council of Agricultural Research, New Delhi  
 Annual Report Indian Tea Association, Scientific Department, Tocklai Experimental Station, Calcutta  
 Annual Report Indiana Agricultural Experiment Station, Lafayette  
 Annual Report Institute of Plant Industry, Indore

## *Suggested abbreviation*

A.R. colon. Insecticides Cttee, Lond.  
 A.R. colon. Res. Coun. Lond.  
 A.R. Colo agric. Exp. Stat.  
 A.R. Commw. agric. Bur. Lond. [now Farnham Royal]  
 A.R. Commonw. dried Fruit Contr. Bd  
 A.R. Commonw. sci. industr. Res. Org. Aust. *or* A.R. C.S.I.R.O. Aust.  
 A.R. Cornell agric. Exp. Stat.  
 A.R. Cyprus Dep. Agric.  
 A.R. Del. St. Bd Agric.  
 A.R. Dominica Dep. Agric.  
 A.R. Domin. exp. Fms, Dep. Agric., Ottawa  
 A.R. E. Afr. Agric. For. Res. Org.  
 A.R. East Malling Res. Stat.  
 A.R. Edinb. Coll. Agric.  
 A.R. Dep. Agric. Dublin  
 A.R. Fernley Observatory, Southport  
 A.R. Fiji Dep. Agric.  
 A.R. Fla agric. Exp. Stat.  
 A.R. Food Invest. Bd, Lond.  
 A.R. For. Comm. Lond.  
 A.R. Fruit Veg. Pres. Res. Stat. Campden  
 A.R. Ga Exp. Stat.  
 A.R. Gold Coast Dep. Agric.  
 A.R. Gulval exp. Stat.  
 A.R. Hong Kong Senior agric. Officer  
 A.R. hort. Educ. Ass.  
 A.R. Idaho agric. Exp. Stat.  
 A.R. Ill. agric. Exp. Stat.  
 A.R. imp. Coll. trop. Agric., Trinidad  
 A.R. imp. For. Inst. Oxford  
 A.R. Indian Coun. agric. Res.  
 A.R. Indian Tea Ass., sci. Dep., Tocklai  
 A.R. Ind. agric. Exp. Stat.  
 A.R. Inst. Plant Ind., Indore

\* Secretary at Long Ashton Res. Stat., Bristol.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Annual Report Inter-American Institute of Agricultural Sciences, Washington, D.C.	A.R. Inter-Amer. Inst. agric. Sci. Wash. D.C.
Annual Report Iowa Agricultural Experiment Station, Ames, Iowa	A.R. Ia agric. Exp. Stat.
Annual Report Isle of Man Board of Agriculture and Fisheries, Douglas	A.R. Bd Agric. Douglas
Annual Report Jamaica Department of Science and Agriculture, Kingston	A.R. Jamaica Dep. Agric.
Annual Report John Innes Horticultural Institution, Bayfordbury	A.R. John Innes hort. Instn
Annual Report Kentucky Agricultural Experiment Station, Lexington	A.R. Ky agric. Exp. Stat.
Annual Report Kenya Department of Agriculture, Nairobi	A.R. Kenya Dep. Agric.
Annual Report Land Settlement Association, London	A.R. Land Settle. Ass.
Annual Report "De Lange Ossekampen", Wageningen	A.R. "Lange Ossekampen"
Annual Report of the Leeward Islands Director of Agriculture, Antigua	A.R. Leeward Islands Dir. Agric.
Annual Report Long Ashton Agricultural and Horticultural Research Station, Bristol, England	A.R. Long Ashton agric. hort. Res. Stat.
Annual Report Macaulay Institute for Soil Research, Craigiebuckler	A.R. Macaulay Inst. Soil Res.
Annual Report Madras Department of Agriculture, Agricultural Stations in the Madras Presidency, Madras	A.R. Madras Dep. Agric. agric. Stats
Annual Report Maine Agricultural Experiment Station, Orono	A.R. Me agric. Exp. Stat.
Annual Report Malaya Department of Agriculture, Kuala Lumpur	A.R. Malaya Dep. Agric.
Annual Report Malta Department of Agriculture, Valetta	A.R. Malta Dep. Agric.
Annual Report Massachusetts Agricultural Experiment Station, Amherst	A.R. Mass. agric. Exp. Stat.
Annual Report Mauritius Department of Agriculture, Port Louis	A.R. Mauritius Dep. Agric.
Annual Report Michigan Agricultural Experiment Station, Lansing	A.R. Mich. agric. Exp. Stat.
Annual Report Michigan Board of Agriculture, Lansing	A.R. Mich. Bd Agric.
Annual Report Minister of Agriculture for the Dominion of Canada, Ottawa, <i>see</i> Annual Report Canada Minister of Agriculture	
Annual Report Minnesota Agricultural Experiment Station, St. Paul	A.R. Minn. agric. Exp. Stat.
Annual Report Mississippi Agricultural Experiment Station, Agricultural College	A.R. Miss. agric. Exp. Stat.
Annual Report Missouri Agricultural Experiment Station, Columbia	A.R. Mo. agric. Exp. Stat.
Annual Report Mushroom Research Station, Yaxley, Peterborough, England	A.R. Mushroom Res. Stat. Yaxley
Annual Report National Institute of Agricultural Botany, Cambridge	A.R. nat. Inst. agric. Bot. Cambridge
Annual Report National Weed Committee Ottawa, Eastern Section	A.R. east. Sect. nat. Weed Cttee, Ottawa
Annual Report Nebraska Agricultural Experiment Station, Lincoln	A.R. Neb. agric. Exp. Stat.
Annual Report New Hampshire Agricultural Experiment Station, Durham	A.R. N.H. agric. Exp. Stat.
Annual Report New Jersey State Agricultural Experiment Station, New Brunswick	A.R. N.J. agric. Exp. Stat.
Annual Report New Zealand Department of Agriculture, Wellington	A.R. N.Z. Dep. Agric.
Annual Report New Zealand Department of Scientific and Industrial Research, Wellington	A.R. Dep. sci. industr. Res. N.Z.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Annual Report New York State Agricultural Experiment Station, Geneva, N. York	A.R. N.Y. St. agric. Exp. Stat.
Annual Report Nigeria Agricultural Department, Lagos	A.R. Nigeria agric. Dep.
Annual Report North Carolina Agricultural Experiment Station, Raleigh	A.R. N.C. agric. Exp. Stat.
Annual Report North Carolina Agricultural Extension Service, Raleigh	A.R. N.C. agric. Ext. Serv.
Annual Report Northern Rhodesia Department of Agriculture, Mazabuka	A.R. N. Rhod. Dep. Agric.
Annual Report Nova Scotia Fruit Growers' Association, Kentville	A.R. N. Scotia Fruit Gr. Ass.
Annual Report Nyasaland Department of Agriculture, Zomba	A.R. Nyasaland Dep. Agric.
Annual Report Ohio Agricultural Experiment Station, Wooster	A.R. Ohio agric. Exp. Stat.
Annual Report Oil Palm Research Station, Nigeria, Benin	A.R. Oil Palm Res. Stat. Nigeria
Annual Report Oregon Agricultural Experiment Station, Corvallis	A.R. Ore. agric. Exp. Stat.
Annual Report Overseas Food Corporation, Scientific Department, East Africa, London	A.R. Overseas Food Corp., sci. Dep., E. Afr.
Annual Report Pennsylvania Agricultural Experiment Station, State College	A.R. Pa agric. Exp. Stat.
Annual Report Philippines Department of Agriculture and Natural Resources, Manila	A.R. Philipp. Dep. Agric.
Annual Reports on the Progress of Chemistry, London	A.R. Progr. Chem.
Annual Report Puerto Rico Agricultural Experiment Station, Rio Piedras	A.R. P.R. agric. Exp. Stat. Rio Piedras
Annual Report Puerto Rico Institute of Tropical Agriculture, Mayagüez	A.R. P.R. Inst. trop. Agric. Mayagüez
Annual Report Pyrethrum Board of Kenya, Nakuru	A.R. Pyreth. Bd Kenya
Annual Report Queensland Acclimatisation Society, Brisbane	A.R. Qd Acclim. Soc.
Annual Report Queensland Department of Agriculture and Stock, Brisbane	A.R. Qd Dep. Agric. Stk
Annual Report of the Research Department of the Indian Coffee Board, Balehonnur	A.R. Res. Dep. Indian Coffee Bd
Annual Report Rhode Island Agricultural Experiment Station, Kingston	A.R. R.I. agric. Exp. Stat.
Annual Report Rothamsted Experimental Station, Harpenden, England	A.R. Rothamsted exp. Stat.
Annual Report Royal Institute for the Indies, Amsterdam*	A.R. roy. Inst. Ind., Amsterdam
Annual Report Royal Institute for the Tropics, Amsterdam†	A.R. roy. Inst. Trop., Amsterdam
Annual Report Rural Industries Bureau, London	A.R. Rur. Ind. Bur. Lond.
Annual Report Sarawak Department of Agriculture, Kuching	A.R. Sarawak Dep. Agric.
Annual Report Scottish Society for Research in Plant Breeding, Edinburgh	A.R. Scot. Soc. Res. Plant Breed.
Annual Report Seychelles Department of Agriculture, Mahé	A.R. Seychelles Dep. Agric.
Annual Report Sierra Leone Department of Agriculture, Freetown	A.R. Sierra Leone Dep. Agric.
Annual Report Sisal Experimental Station, Tanganyika Department of Agriculture, Dar es Salaam	A.R. Sisal exp. Stat. Tanganyika
Annual Reports of the Society of Chemical Industry on the Progress of Applied Chemistry, London	A.R. Progr. appl. Chem.
Annual Report of the Society for Fruit Tree Breeding, Balsgård, Sweden	A.R. Soc. Fruit Tree Breed. Balsgård
Annual Report South Australia Department of Agriculture, Adelaide	A.R. S. Aust. Dep. Agric.

\* Now A.R. Royal Institute for the Tropics, Amsterdam.

† Formerly A.R. Royal Institute for the Indies, Amsterdam.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Annual Report St. Lucia Department of Agriculture, St. Lucia	A.R. St. Lucia Dep. Agric.
Annual Report Storrs Agricultural Experiment Station, Connecticut	A.R. Storrs agric. Exp. Stat.
Annual Report St. Vincent Agricultural Department, Kingstown	A.R. St. Vincent agric. Dep.
Annual Report Sugar Cane Research Station, Port Louis, Mauritius	A.R. Sugar Cane Res. Stat. Mauritius
Annual Report Swaziland Department of Native Land Settlement	A.R. Swaziland Dep. Native Land Settlement
Annual Report Tanganyika Department of Agriculture, Dar es Salaam	A.R. Tanganyika Dep. Agric.
Annual Report Tea Culture in Assam. Director of Agriculture, Assam. Shillong	A.R. Tea Culture in Assam
Annual Report Tea Research Institute of Ceylon, St. Coombs, Talawakelle	A.R. Tea Res. Inst. Ceylon
Annual Report Texas Agricultural Experiment Station, College Station	A.R. Tex. agric. Exp. Stat.
Annual Report Trelawney Tobacco Research Station, Tobacco Research Board of Southern Rhodesia, Salisbury	A.R. Trelawney Tobacco Res. Stat. S. Rhod.
Annual Report Trinidad and Tobago Department of Agriculture, Port of Spain	A.R. Trinidad Dep. Agric.
Annual Report Uganda Department of Agriculture, Entebbe	A.R. Uganda Dep. Agric.
Annual Report United Planters' Association of Southern India, Tea Scientific Section, Madras	A.R. U.P.A.S.I., Tea sci. Sect.
Annual Report U.S. Department of Agriculture, Agricultural Experiment Stations, Washington, D.C.	A.R. U.S. Dep. Agric., agric. Exp. Stats
Annual Report U.S. Department of Agriculture, Chief of the Bureau of Agricultural and Industrial Chemistry, Agricultural Research Administration, Washington, D.C.	A.R. U.S. Dep. Agric., Chief Bur. agric. industr. Chem., agric. Res. Administ.
Annual Report U.S. Department of Agriculture, Chief of the Office of Experiment Stations, Agricultural Research Administration, Washington, D.C.	A.R. U.S. Dep. Agric., Chief Off. Exp. Stats, agric. Res. Administ.
Annual Report U.S. Department of Agriculture, Secretary of Agriculture, Washington, D.C.	A.R. U.S. Dep. Agric., Secy Agric.
Annual Report U.S. Department of Agriculture, Tobacco Statistics, Washington, D.C.	A.R. U.S. Dep. Agric., Tobacco Statist.
Annual Report of the Virginia Agricultural Experiment Station, Blacksburg	A.R. Va agric. Exp. Stat.
Annual Report Washington State Agricultural Experiment Station, Pullman	A.R. Wash. St. agric. Exp. Stat. Pullman
Annual Report Wattle Research Institute, Pietermaritzburg, S. Africa	A.R. Wattle Res. Inst. Pietermaritzburg
Annual Report West African Cacao Research Institute, Gold Coast, Tafo	A.R. W. Afr. Cacao Res. Inst.
Annual Report West of Scotland Agricultural College, Glasgow	A.R. W. Scot. agric. Coll.
Annual Report Wisconsin Agricultural Experiment Station, Madison	A.R. Wis. agric. Exp. Stat.
Annual Report Wye College, Department of Hop Research	A.R. Wye Coll., Dep. Hop Res.
Annual Report Wyoming Agricultural Experiment Station, Laramie	A.R. Wyo. agric. Exp. Stat.
Annual Report Zanzibar Department of Agriculture	A.R. Zanzibar Dep. Agric.
Annual Review of Biochemistry, Stanford, California	Annu. Rev. Biochem.
Annual Review Canterbury Agricultural College, Lincoln, N.Z.	Annu. Rev. Canterbury agric. Coll.
Annual Review of Microbiology, Stanford, California	Annu. Rev. Microbiol.
Annual Review of Plant Physiology, Stanford, California	Annu. Rev. Plant Physiol.
Årbog for Gartneri, Copenhagen	Årbog Gartneri
Archief voor de Koffiecultuur, Bogor (Buitenzorg)	Arch. Koffiecult.



## LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Archief voor de Rubbercultuur, Bogor (Buitenzorg)	Arch. Rubbercult.
Archief voor de Theecultuur, Bogor (Buitenzorg)	Arch. Theecult.
Archiv der Julius Klaus Stiftung, Zürich	Arch. Klaus Stift.
Archives of Biochemistry, Lancaster, Pa*	Arch. Biochem.
Archives of Biochemistry and Biophysics, Lancaster, Pa†	Arch. Biochem. Biophys.
Archives de l'Institut des Recherches Agronomiques de l'Indochine	Arch. Inst. Rech. agron. Indochine
Arquivos do Instituto Biológico, São Paulo, Brazil	Arq. Inst. biol. S. Paulo
Årsberetning fra Norges Landbrukskøleskole, Oslo	Årsberetn. Norges LandbrHøgsk.
Årsbok Svensk Jordbruks Forskning, Stockholm	Årsb. svensk Jordbr. Forskn.
Årsskrift för Lantbruks- och Mejeri Trädgårdsinstitut vid Alnarp, Sweden	Årsskr. Lantbr. Trädgårdsinst.
Aslib Book-List, London	
Atti Accademia Italiana Della Vite e del Vino Siena, Firenze	Atti Accad. ital. Vite
Atti dell'Istituto Botanica della Università di Pavia, Pavia	Atti Ist. bot. Univ. Pavia
Australian Journal of Agricultural Research, Melbourne	Aust. J. agric. Res.
Australian Journal of Science, Sydney, N.S.W.	Aust. J. Sci.
Australian Journal of Scientific Research, Series B, Biological Sciences, Melbourne, Victoria	Aust. J. sci. Res., Ser. B, biol. Sci.
Australian Sugar Journal, Brisbane	Aust. Sugar J.
The Bee World, London	Bee World
Beretning fra Faellesudvalget for Prøvedyrkning af Køkkenurter, Copenhagen	Beret. Faellesudv. Prøvedyrkn. Køkken
Bergcultures, Djakarta, Indonesia	Bergcultures
Bericht über die Tätigkeit der Bundesanstalt für alpine Landwirtschaft in Admont, Austria	Ber. Bundesanst. alpine Landw. Admont
Bericht Pflanzkrankheitenkunde Dienst, Wageningen	Ber. PflZiekt. Dienst
Berichte des Deutschen Wetterdienstes in der US-Zone, Bad Kissingen	Ber. dtsh. Wetterdienst. U.S. Zone
Berichte des Ōhara Instituts für landwirtschaftliche Forschungen, Kurashiki, Japan	Ber. Ōhara Inst. landw. Forsch.
Better Crops with Plant Food, Washington, D.C.	Bett. Crops
Better Fruit, Portland, Oregon	Bett. Fruit
Bibliographical Bulletin United States Department of Agriculture, Washington, D.C.	Bibl. Bull. U.S. Dep. Agric.
Bibliography of Agriculture, Washington, D.C.	Bibl. Agric. Wash.
Bibliography of Meteorological Literature, London	Bibl. met. Lit. Lond.
Biennial Report Arkansas Agricultural Experiment Station, Fayetteville	Bienn. Rep. Ark. agric. Exp. Stat.
Biennial Report Hawaii Agricultural Experiment Station, Honolulu	Bienn. Rep. Hawaii agric. Exp. Stat.
Biennial Report of the Director, Kansas Agricultural Experiment Station, Manhattan	Bienn. Rep. Dir. Kansas agric. Exp. Stat.
Biennial Report of the Vineland Horticultural Experiment Station, Ontario	Bienn. Rep. Vineland hort. Exp. Stat. Ont.
Biennial Report Oklahoma Agricultural Experiment Station, Stillwater	Bienn. Rep. Okla. agric. Exp. Stat.
Biennial Report Utah Agricultural Experiment Station, Logan	Bienn. Rep. Utah agric. Exp. Stat.
Biennial Report West Virginia Agricultural Experiment Station, Morgantown	Bienn. Rep. W. Va agric. Exp. Stat.
Biochemical Journal, Liverpool	Biochem. J.
Biochemistry [Russian], see Biohimija	
Biochimica et Biophysica Acta, Amsterdam	Biochim. biophys. Acta
Biohimija (Biochemistry) Moscow [Russian]	Biohimija
Biological Abstracts, Menasha, Wis.	Biol. Abstr.
Biological Reviews and Biological Proceedings of the Cambridge Philosophical Society, Cambridge	Biol. Rev.

\* Now Archives of Biochemistry and Biophysics.

† Formerly Archives of Biochemistry.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
O Biológico, São Paulo, Brazil	Biológico
Biologisches Zentralblatt, Leipzig	Biol. Zbl.
Biometrics, Washington, D.C.	Biometrics
Biometrika, Cambridge	Biometrika
Bodenkultur, Vienna	Bodenkultur
Boletim Junta Nacional das Frutas, Lisbon	Bol. Junta nac. Frut. Lisbon
Boletim da Superintendência dos Serviços do Café, São Paulo	Bol. Super. Serv. Café, S. Paulo
Boletim Técnico do Instituto Agronômico do Norte, Belém, Para, Brazil	Bol. téc. Inst. agron. Norte, Belém
Boletín Dirección de Frutas, Hortalizas y Flores, Buenos Aires, Argentina	Bol. Dir. Frut., B. Aires
Boletín Estación Experimental Agrícola, Rio Piedras, Puerto Rico	Bol. Estac. exp. agríc. Rio Piedras
Boletín de la Estación Experimental Agrícola de Tucumán, Argentina	Bol. Estac. exp. agríc. Tucumán
Boletín Estación Experimental Agrícola en Tingo María, Peru	Bol. Estac. exp. agríc. Tingo María
Boletín Estación Experimental Agronómica, Santiago de las Vegas, Cuba	Bol. Estac. exp. agron. Santiago de las Vegas
Boletín Estación Experimental de Aula Dei, Zaragoza, Spain	Bol. Estac. exp. Aula Dei
Boletín de la Estación Experimental Cinco Saltos, Rio Negro, Argentina	Bol. Estac. exp. Cinco Saltos
Boletín Estación Experimental Citrícola de Concordia, Argentina	Bol. Estac. exp. citric. Concordia
Boletín Extensión Federación Nacional de Cafeteros, Chinchina-Caldas, Colombia	Bol. Ext. Fed. nac. Cafeteros, Chinchina-Caldas
Boletín Facultad de Agronomía y Veterinaria de la Universidad de Buenos Aires	Bol. Fac. Agron. Vet. Univ. B. Aires
Boletín Informativo. Organo de la Biblioteca del Centro Nacional de Investigaciones de Café, Chinchina-Caldas, Colombia	Bol. inf. Colombia
Boletín Instituto Experimental de Agricultura y Zootécnica, El Valle, Venezuela	Bol. Inst. exp. Agric. Zootéc. El Valle
Boletín del Instituto Nacional de Investigaciones Agronómicas, Madrid	Bol. Inst. Invest. agron. Madrid
Boletín Técnico Sección de Publicaciones y Biblioteca, Ministerio de Agricultura e Industrias, Costa Rica	Bol. téc. Secc. Publ. y Bibl. Costa Rica
Bollettino della Stazione di Patologia Vegetale di Roma, Rome	Boll. Staz. Pat. veg. Roma
Botanical Gazette, Chicago, Ill.	Bot. Gaz.
Botanical Review, Lancaster, Pa	Bot. Rev.
Botaničeskii Žurnal, Moscow and Leningrad [Russian]	Bot. Žurnal
Bragantia, Campinas, São Paulo, Brazil	Bragantia
British Abstracts, London	Brit. Abstr.
British Agricultural Bulletin, London	Brit. agric. Bull.
British Farmer, London	Brit. Fmr
Brooklyn Botanic Garden Record, Plants and Gardens, Lancaster, Pa	Brooklyn bot. Gdn Rec.
Buletin de Documentare Tehnica, Bucarest	Bul. Doc. tehn. Buc.
Bulletin Agricole du Congo Belge, Bruxelles	Bull. agric. Congo belge
Bulletin Agronomique Ministère de la France d'Outre Mer, Paris	Bull. agron. Minist. France d'Outre Mer
Bulletin Arkansas Agricultural Experiment Station, Fayetteville	Bull. Ark. agric. Exp. Stat.
Bulletin British Columbia Department of Agriculture, Development and Extension Branch Agricultural Engineering Division, Victoria, B.C.	Bull. B.C. Dep. Agric.
Bulletin British West Indies Central Sugar Cane Breeding Station, Barbados	Bull. B.W.I. centr. Sugar Cane Breed. Stat.
Bulletin California Agricultural Experiment Station, Berkeley	Bull. Calif. agric. Exp. Stat.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Bulletin Colorado Agricultural Experiment Station, Fort Collins	Bull. Colo agric. Exp. Stat.
Bulletin Commonwealth Scientific and Industrial Research Organization, Australia, Melbourne	Bull. Commonw. sci. industr. Res. Org. Aust. or Bull. C.S.I.R.O. Aust.
Bulletin Connecticut Agricultural Experiment Station, New Haven	Bull. Conn. agric. Exp. Stat.
Bulletin Cornell Agricultural Experiment Station, Ithaca, N.Y.	Bull. Cornell agric. Exp. Stat.
Bulletin Department of Agriculture, Jamaica, Kingston	Bull. Dep. Agric. Jamaica
Bulletin Department of Agriculture Union of S. Africa	Bull. Dep. Agric. S. Afr.
Bulletin Department of Science and Agriculture, Barbados	Bull. Dep. Sci. Agric. Barbados
Bulletin Department of Scientific and Industrial Research, New Zealand	Bull. Dep. sci. industr. Res. N.Z. or Bull. D.S.I.R.O., N.Z.
Bulletin of the Ecological Society of America, Fredericksburg, Virginia	Bull. ecol. Soc. Amer.
Bulletin of Edinburgh and East of Scotland College of Agriculture	Bull. Edinb. Coll. Agric.
Bulletin of Entomological Research, London	Bull. ent. Res.
Bulletin of the Faculty of Horticulture and Viticulture, University of Agricultural Sciences, Budapest	Bull. Fac. Hort. Buda.
Bulletin Farm Mechanization Service, Victoria, Melbourne	Bull. Fm Mech. Serv. Melbourne
Bulletin Federal Experiment Station in Puerto Rico, Mayagüez	Bull. P.R. fed. Exp. Stat. Mayagüez
Bulletin Florida Agricultural Experiment Station, Gainesville	Bull. Fla agric. Exp. Stat.
Bulletin Georgia Experiment Station, Experiment	Bull. Ga Exp. Stat.
Bulletin Hawaii Agricultural Experiment Station, Honolulu	Bull. Hawaii agric. Exp. Stat.
Bulletin Illinois Agricultural Experiment Station, Urbana, Illinois	Bull. Ill. agric. Exp. Stat.
Bulletin of the Indian Central Coconut Committee, Ernakulam	Bull. Indian centr. Coconut Cttee
Bulletin Indian Coffee Board Research Department, Bangalore	Bull. Indian Coffee Bd Res. Dep.
Bulletin Inspection Générale et Direction de l'Agriculture de l'Algérie	Bull. Insp. gén. Dir. Agric. Algér.
Bulletin de l'Institut Agronomique et des Stations de Recherches de Gembloux, Belgium	Bull. Inst. agron. Gembloux
Bulletin Iowa Agricultural Experiment Station, Ames	Bull. Ia agric. Exp. Stat.
Bulletin du Jardin Botanique de l'État à Bruxelles, Belgium	Bull. Jard. bot. Bruxelles
Bulletin Jealott's Hill Research Station, Bracknell, Berks.	Bull. Jealott's Hill Res. Stat.
Bulletin Kansas Agricultural Experiment Station, Manhattan	Bull. Kans. agric. Exp. Stat.
Bulletin Kentucky Agricultural Experiment Station, Lexington	Bull. Ky agric. Exp. Stat.
Bulletin Louisiana Agricultural Experiment Station, Baton Rouge	Bull. La agric. Exp. Stat.
Bulletin Maine Agricultural Experiment Station, Orono	Bull. Me agric. Exp. Stat.
Bulletin Massachusetts Agricultural Experiment Station, Amherst	Bull. Mass. agric. Exp. Stat.
Bulletin Massey Agricultural College, Palmerston North, N.Z.	Bull. Massey agric. Coll.
Bulletin (Sci. Ser.) Mauritius Department of Agriculture, Port Louis	Bull. (sci. Ser.) Mauritius Dep. Agric.
Bulletin Ministry of Agriculture, Egypt, Technical and Scientific Service, Cairo	Bull. Minist. Agric. Egypt
Bulletin Ministry of Agriculture, London	Bull. Minist. Agric. Lond.
Bulletin Minnesota Agricultural Experiment Station, St. Paul	Bull. Minn. agric. Exp. Stat.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Bulletin Mississippi Agricultural Experiment Station, State College	Bull. Miss. agric. Exp. Stat.
Bulletin Missouri Agricultural Experiment Station, Columbia	Bull. Mo. agric. Exp. Stat.
Bulletin Montana Agricultural Experiment Station, Bozeman	Bull. Mont. agric. Exp. Stat.
Bulletin Mushroom Growers Association, Yaxley, Peterborough	Bull. Mushroom Gr. Ass.
Bulletin New Hampshire Agricultural Experiment Station, Durham	Bull. N.H. agric. Exp. Stat.
Bulletin New Jersey Agricultural Experiment Station, New Brunswick	Bull. N.J. agric. Exp. Stat.
Bulletin New Mexico Agricultural Experiment Station, State College	Bull. N. Mex. agric. Exp. Stat.
Bulletin New York State Agricultural Experiment Station, Geneva	Bull. N.Y. St. agric. Exp. Stat.
Bulletin New York State Flower Growers	Bull. N.Y. St. Flower Grs
Bulletin New Zealand Department of Agriculture, Wellington	Bull. N.Z. Dep. Agric.
Bulletin North Carolina Agricultural Experiment Station, Raleigh	Bull. N.C. agric. Exp. Stat.
Bulletin de l'Office International du Vin, Paris	Bull. Off. int. Vin
Bulletin Ohio Agricultural Experiment Station, Wooster	Bull. Ohio agric. Exp. Stat.
Bulletin Oklahoma Agricultural Experiment Station, Stillwater	Bull. Okla. agric. Exp. Stat.
Bulletin Oregon Agricultural Experiment Station, Corvallis	Bull. Ore. agric. Exp. Stat.
Bulletin Pennsylvania Agricultural Experiment Station, State College	Bull. Pa agric. Exp. Stat.
Bulletin Puerto Rico Agricultural Experiment Station, Rio Piedras	Bull. P.R. agric. Exp. Stat. Rio Piedras
Bulletin Purdue University Agricultural Experiment Station, Lafayette, Indiana	Bull. Purdue Univ. agric. Exp. Stat.
Bulletin Queensland Department of Agriculture and Stock, Division of Plant Industry, Brisbane	Bull. Qd Dep. Agric., Div. Plant Ind.
Bulletin Rehovot Agricultural Research Station, Israel	Bull. Rehovot agric. Res. Stat.
Bulletin Rhode Island Agricultural Experiment Station, Kingston	Bull. R.I. agric. Exp. Stat.
Bulletin Scientifique Ministère de la France d'Outre Mer, Paris	Bull. sci. Minist. France d'Outre Mer
Bulletin du Service Botanique et Agronomique de Tunisie, Tunis	Bull. Serv. bot. Tunis
Bulletin de la Société Botanique de France, Paris	Bull. Soc. bot. Fr.
Bulletin Southern Rhodesia Department of Agriculture, Salisbury	Bull. S. Rhod. Dep. Agric.
Bulletin Storrs Agricultural Experiment Station, Connecticut	Bull. Storrs agric. Exp. Stat.
Bulletin Tea Research Institute, Talawakelle, Ceylon	Bull. Tea Res. Inst. Ceylon
Bulletin Texas Agricultural Experiment Station, College Station	Bull. Tex. agric. Exp. Stat.
Bulletin of the Torrey Botanical Club and Torreya, Lancaster, Pa	Bull. Torrey bot. Cl.
Bulletin Utah Agricultural Experiment Station, Logan	Bull. Utah agric. Exp. Stat.
Bulletin Vermont Agricultural Experiment Station, Burlington	Bull. Vt agric. Exp. Stat.
Bulletin West Virginia Agricultural Experiment Station, Morgantown	Bull. W. Va agric. Exp. Stat.
Bulletin Vineland Horticultural Experiment Station, Ontario	Bull. Vineland hort. Exp. Stat.
Bulletin Virginia Agricultural Experiment Station, Blacksburg	Bull. Va agric. Exp. Stat.
Bulletin Washington Agricultural Experiment Stations, Pullman and Puyallup	Bull. Wash. St. agric. Exp. Stats



# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Bulletin Wisconsin Agricultural Experiment Station, Madison	Bull. Wis. agric. Exp. Stat.
Bulletin Wyoming Agricultural Experiment Station, Laramie	Bull. Wyo. agric. Exp. Stat.
Butler University Botanical Studies, Indianapolis	Butler Univ. bot. Stud.
Cacao, Turrialba	Cacao
Cahiers I.R.C.I., Institut de Recherches sur le Caoutchouc en Indo-Chine, Lai Khe	Cah. Inst. Rech. Caoutch.
Caldasia, Bogotá, Colombia	Caldasia
California Citrograph, Los Angeles	Calif. Citrogr.
Canadian Grower, Toronto	Canad. Gr.
Canadian Journal of Botany, Ottawa*	Canad. J. Bot.
Canadian Journal of Chemistry, Ottawa*	Canad. J. Chem.
Canadian Journal of Technology, Ottawa*	Canad. J. Tech.
Canadian Journal of Zoology, Ottawa*	Canad. J. Zool.
Canadian Journal of Research, Ottawa,† Sections B, C, D and F	Canad. J. Res.
Cane Growers' Quarterly Bulletin, Brisbane	Cane Grs' quart. Bull.
Ceylon Coconut Quarterly, Lunuwila	Ceylon Coconut Quart.
Chemistry and Industry, London	Chem. Ind. Lond.
Chronica Botanica, Waltham, Mass.	Chron. Bot.
Chronica Naturae, Djakarta, Indonesia‡	Chron. Nat.
Ciencia e Investigacion, Buenos Aires	Cien. y Invest.
Circular Bulletin Michigan Agricultural Experiment Station, East Lansing	Circ. Bull. Mich. agric. Exp. Stat.
Circular California Agricultural Experiment Station, Berkeley	Circ. Calif. agric. Exp. Stat.
Circular California Agricultural Extension Service	Circ. Calif. agric. Ext. Serv.
Circular Connecticut Agricultural Experiment Station, New Haven	Circ. Conn. agric. Exp. Stat.
Circular Department of Agriculture, Jamaica	Circ. Dep. Agric. Jamaica
Circular Division of Horticulture, Experimental Farms Service, Department of Agriculture, Ottawa, Canada	Circ. Div. Hort., exp. Fms Serv., Ottawa
Circular Estación Experimental Agrícola de Tucumán, Argentina	Circ. Estac. exp. agríc. Tucumán
Circular Estación Experimental Agronomica, Santiago de la Vegas, Cuba	Circ. Estac. exp. agron. Santiago de la Vegas
Circular Extensión Estación Experimental Agrícola en Tingo María, Peru	Circ. Ext. Estac. exp. agríc. Tingo María
Circular Georgia Experiment Station, Experiment	Circ. Ga Exp. Stat.
Circular Hawaii Agricultural Experiment Station, Honolulu	Circ. Hawaii agric. Exp. Stat.
Circular Idaho Agricultural Experiment Station, Moscow	Circ. Idaho agric. Exp. Stat.
Circular Illinois Agricultural Experiment Station, Urbana	Circ. Ill. agric. Exp. Stat.
Circular Illinois Agricultural Extension Service, Urbana	Circ. Ill. agric. Ext. Serv.
Circular Instituto Experimental de Agricultura y Zootecnia, E. Valle, Venezuela	Circ. Inst. exp. Agric. Zootec. E. Valle
Circular Kansas Agricultural Experiment Station, Manhattan	Circ. Kans. agric. Exp. Stat.
Circular Ministerio de Agricultura y Cría Venezuela	Circ. Minist. Agric. Venezuela
Circular Mississippi Agricultural Experiment Station, State College	Circ. Miss. agric. Exp. Stat.
Circular Missouri Agricultural Experiment Station, Columbia	Circ. Mo. agric. Exp. Stat.
Circular Nebraska Agricultural Experiment Station, Lincoln	Circ. Neb. agric. Exp. Stat.
Circular New Hampshire Agricultural Experiment Station, Durham	Circ. N.H. agric. Exp. Stat.

\* Formerly Canadian Journal of Research, Sections C, B, F and D respectively.

† Now Canadian Journals of Chemistry, Botany, Zoology, and Technology respectively.

‡ Now Indonesian Journal for Natural Science, Bantung.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Circular New Jersey Agricultural Experiment Station, New Brunswick	Circ. N.J. agric. Exp. Stat.
Circular Oklahoma Agricultural Experiment Station, Stillwater	Circ. Okla. agric. Exp. Stat.
Circular Oregon Agricultural Experiment Station, Corvallis	Circ. Ore. agric. Exp. Stat.
Circular Pennsylvania Agricultural Extension Service, State College	Circ. Pa. agric. Ext. Serv.
Circular Puerto Rico Federal Experiment Station, Mayagüez	Circ. P.R. fed. Exp. Stat. Mayagüez
Circular Rubber Research Institute, Malaya, Kuala Lumpur	Circ. Rubb. Res. Inst. Malaya
Circular Syrian Ministry of National Economy Extension Service [Arabic], Damascus	Circ. Syrian Minist. nat. Econ. Ext. Serv. Damascus
Circular Texas Agricultural Experiment Station, College Station	Circ. Tex. agric. Exp. Stat.
Circular United States Department of Agriculture, Washington, D.C.	Circ. U.S. Dep. Agric.
Circular Utah Agricultural Experiment Station, Logan	Circ. Utah agric. Exp. Stat.
Circular West Virginia Agricultural Experiment Station, Morgantown	Circ. W. Va. agric. Exp. Stat.
Circular Wyoming Agricultural Experiment Station, Laramie	Circ. Wyo. agric. Exp. Stat.
Citrus Grower, Port Elizabeth, S. Africa	Citrus Gr
Citrus News, Melbourne, Australia	Citrus News
Collected Papers of the Canadian Committee on Food Preservation, Ottawa	Coll. Pap. Canad. Cttee Food Pres.
Collected Papers, Macaulay Institute for Soil Research, Aberdeen	Coll. Pap. Macaulay Inst. Soil Res.
Collection of Czechoslovak Chemical Communications, Prague	Coll. Czech. chem. Commun.
Collective Farming [Russian], <i>see</i> Kolhoznoe Proizvodstvo	
Colonial,* London Colonial Office	Colonial
Colonial Plant and Animal Products, London	Colon. Plant Anim. Prod.
Commodity Reports F.A.O. (Fibers, etc.), Washington, D.C.	Commodity Rep. F.A.O.
Comptes Rendus de l'Académie Bulgare des Sciences, Sofia	C.R. Acad. bulg. Sci.
Comptes Rendus hebdomadaires des Séances de l'Académie d'Agriculture de France, Paris	C.R. Acad. Agric. Fr.
Contributions from Boyce Thompson Institute, Menasha, Wis., and editorial office, Yonkers, N.Y.	Contr. Boyce Thompson Inst.
Contributions from the Brooklyn Botanic Garden, Brooklyn, N.Y.	Contr. Brooklyn bot. Gdn
Contribution Division of Horticulture, Experimental Farms Service, Ottawa	Contr. Div. Hort., exp. Fms Serv., Ottawa
Contributions of the General Agricultural Research Station, Bogor, Indonesia	Contr. gen. agric. Res. Stat. Bogor
Contribution Rhode Island Agricultural Experiment Station, Kingston	Contr. R.I. agric. Exp. Stat.
Countryman, Nicosia, Cyprus	Countryman, Nicosia
Courrier Horticole, Bruxelles	Courr. hort.
Cultuur en Handel, Kortenberg, Belgium	Cult. Hand.
Current Science, Bangalore	Curr. Sci.
Darwiniana, Buenos Aires	Darwiniana
Défense des Végétaux, Dielsdorf-Zürich	Déf. Vég.
Deutsche Baumschule, Aachen	Dtsch. Baumsch.
Distribution Maps of Plant Diseases, Kew	Distrib. Maps Plant Dis.

\* Relevant issues only.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Divisional Report, Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Melbourne	Div. Rep., Div. Plant Ind., C.S.I.R.O.
Documentatieblad van de Afdeling Tropische Producten, Indisch * Instituut te Amsterdam, Amsterdam	DocumBl. trop. Prod. Amst.
Doklady Akademii Nauk S.S.S.R. (Proceedings of the Academy of Sciences of the U.S.S.R.), Moscow [Russian].	Doklady Akad. Nauk S.S.S.R.
Doklady Vsesojuznoi Akademii Sel'skhozjaistvennyh Nauk Imeni V. I. Lenina (Proceedings of the Lenin Academy of Agricultural Sciences), Moscow [Russian]	Doklady vsesojuz. Akad. sel'sk. Nauk
Down to Earth, Midland, Michigan	Down to Earth
East African Agricultural Journal, Nairobi	E. Afr. agric. J.
Economic Botany, New York	Econ. Bot.
Economic Series Department of Agriculture Federation of Malaya, Kuala Lumpur	Econ. Ser. Dep. Agric. Malaya
Economic Series Ministry of Agriculture, London	Econ. Ser. Minist. Agric. Lond.
Empire Journal of Experimental Agriculture, Oxford	Emp. J. exp. Agric.
Endeavour, London	Endeavour
Entomologie et Phytopathologie Appliquées, Tehran	Ent. Phytopath. appl.
Entomologist, London	Entomologist
Entomologists' Monthly Magazine, London	Ent. mon. Mag.
Erhvervsfrugtavlere, Odense, Denmark	Erhvervsfrugtavl.
Essex Farmers' Journal, Chelmsford	Essex Fmrs' J.
Evolution, Lancaster, Pa	Evolution
Extension Bulletin Cornell Agricultural Experiment Station, Ithaca, N.Y.	Ext. Bull. Cornell agric. Exp. Stat.
Extension Bulletin Maine Agricultural Experiment Station, Orono, Me	Ext. Bull. Me agric. Exp. Stat.
Extension Bulletin Michigan Agricultural Experiment Station, East Lansing	Ext. Bull. Mich. agric. Exp. Stat.
Extension Bulletin New Jersey Agricultural Experiment Station, New Brunswick	Ext. Bull. N.J. agric. Exp. Stat.
Extension Bulletin Washington State Agricultural Extension Service, Pullman	Ext. Bull. Wash. St. agric. Ext. Serv.
Extension Circular Department of Science and Agriculture, Jamaica	Ext. Circ. Dep. Sci. Agric. Jamaica
Extensión Circular Estación Experimental de Agricultura, Tingo María	Ext. Circ. Estac. exp. Agric. Tingo María
Extension Circular North Carolina Agricultural Extension Service, Raleigh	Ext. Circ. N.C. agric. Ext. Serv.
Extension Circular Washington State Agricultural Extension Service, Pullman	Ext. Circ. Wash. St. agric. Ext. Serv.
Extension Folder North Carolina Agricultural Experiment Station, Raleigh	Ext. Folder N.C. agric. Exp. Stat.
Extension Publication Louisiana Division of Agricultural Extension, Baton Rouge	Ext. Publ. La Div. agric. Ext.
Extension Service Circular California Agricultural Experiment Station, Berkeley	Ext. Serv. Circ. Calif. agric. Exp. Stat.
Farm Economist, Oxford	Fm Econ.
Farmacognosia Anales del Instituto José Celestino Mutis, Madrid	Farmacognosia
Farmer. Journal of the Jamaica Agricultural Society, Kingston, Jamaica	Fmr Jamaica
Farmer and Stockbreeder, London	Fmr & Stk-Breed.
Farmers' Bulletin Department of Agriculture, Canada, Ottawa	Fmrs' Bull. Dep. Agric. Canada
Farmers' Bulletin United States Department of Agriculture, Washington, D.C.	Fmrs' Bull. U.S. Dep. Agric.

\* Now Koninklijk Instituut voor de Tropen, Amsterdam

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Farmers' Leaflet National Institute of Agricultural Botany, Cambridge	Fmrs' Leafl. nat. Inst. agric. Bot.
Farmers' Newsletter, Leeton, N.S.W.	Fmrs' Newsllett.
Farmers' Weekly, London	Fmrs' Wkly
Farming in South Africa, Pretoria	Fmg S. Afr.
Fertilizer, Feeding Stuffs, and Farm Supplies Journal, London	Fert. Feed. St. J.
Field Crop Abstracts, Aberystwyth	Field Crop Abstr.
Fixed Equipment of the Farm Leaflet, Ministry of Agriculture, London	Fixed Equip. Fm Leafl. Minist. Agric. Lond.
Florists Exchange, New York	Flor. Exch.
Flugblatt Biologische Bundesanstalt Braunschweig	Flugbl. biol. Bundesanst. Braunschweig
Flugblätter der Bundesanstalt für Pflanzenschutz, Vienna	Flugbl. Bundesanst. PflSchutz Wien
Flygblad Statens Växtskyddsanstalt, Stockholm, Sweden	Flygbl. Växtskyddsanst, Stockh.
Food and Agriculture, Rome	Food & Agric.
Food Investigation Leaflet, Department of Scientific and Industrial Research, London	Food Invest. Leafl. D.S.I.R. Lond.
Food, London	Food
Food Manufacture, London	Food Manuf.
Food Preservation Quarterly, Sydney	Food Pres. Quart.
Food Science Abstracts, London	Food Sci. Abstr.
Foreign Agriculture, Washington, D.C.	Foreign Agric.
Föreningen för växtförädling av fruktträd. Versamhetssåret, Balsgård, <i>see</i> Annual Report of the Society for Fruit Tree Breeding, Balsgård	
Forestry, London	Forestry
Forestry Abstracts, Oxford	For. Abstr.
Forskning og Forsøk i Landbruket, Oslo	Forskn. Landbruk.
Fruit Annual, London	Fruit Annu. Lond.
Fruit Belge, Gembloux	Fruit belge
Fruit, Chelmsford	Fruit
Fruit-Grower Year Book, London	Fruit-Grower Year Book
Fruit and Produce, Auckland	Fruit & Prod.
Fruit Varieties and Horticultural Digest, Wooster, Ohio	Fruit Var. hort. Dig.
Fruit World and Market Grower, Melbourne and Sydney	Fruit World, Melbourne
Fruit Year Book, R.H.S. London	Fruit Year Book
Fruit-grower, Market Gardener and Glasshouse Nurseryman, London	Fruitgrower
Fruits d'Outre Mer*, Paris	Fruits d'Outre Mer
Fruits et Primeurs de l'Afrique du Nord, Casablanca, Morocco (La Revue Française de l'Oranger)	Fruits et Prim.
Fruittelt, The Hague	Fruittelt
Frukt og Baer, Oslo	Frukt og Baer
Fruktodlaren, Stockholm	Fruktodlaren
Fukien Agricultural Journal, Foochow	Fukien agric. J.
Gardeners' Chronicle, London	Gdnrs' Chron.
Gardens' Bulletin, Straits Settlements, Singapore	Gdns' Bull. Singapore
Gärtnermeister, Zürich	Gärtnermeister
General Series Bulletin Department of Agriculture, Mauritius, Port Louis	Gen. Ser. Bull. Dep. Agric. Mauritius
Grower, London	Grower
Growers' Digest, Wishaw, Scotland	Grs' Digest
Growers' Notes and Station Record, Gulval, Cornwall	Grs' Notes Stat. Rec. Gulval
Growth, Worcester, Mass.	Growth
Hassadeh, Tel-Aviv [Hebrew]	Hassadeh
Hawaiian Planters' Record, Honolulu	Hawaii. Plant. Rec.
Helminthological Abstracts, St. Albans	Helminth. Abstr.
Herbage Abstracts, Aberystwyth	Herb. Abstr.
Heredity, London	Heredity
Hilgardia, Berkeley, California	Hilgardia

\* Now Fruits



# LIST OF PUBLICATIONS

## Publication

Höfchen Briefe, Leverkusen, Germany  
Humus, Milan

## Suggested abbreviation

Höfchen Briefe  
Humus

Idia (Informativo de Investigaciones Agrícolas), Buenos Aires  
Indian Coconut Journal, Ernakulam, S. India  
Indian Coffee Board Monthly Bulletin, Bangalore  
Indian Farming, Delhi  
Indian Journal of Agricultural Science, Delhi  
Indian Journal of Horticulture, New Delhi  
Indonesian Journal for Natural Science, Bandung\*  
Industrial and Engineering Chemistry, Easton, Pa  
Information Bulletin, Inter-American Institute of Agricultural Sciences, Turrialba, Costa Rica  
Information and Research from the Tropical Products Department of the Royal Institute for the Indies, Amsterdam†  
Information and Research from the Tropical Products Department of the Royal Institute for the Tropics, Amsterdam‡  
Informativo de Investigaciones Agrícolas, Buenos Aires, *see* Idia  
Informe Ministerio de Agricultura e Industrias, Costa Rica, *see* Report Ministerio . . .  
Inlichtingen en onderzoekingen van de Afdeling Tropische Producten, *see* Information and Research from the Tropical Products Department, Royal Institute for the Indies, Amsterdam  
International Sugar Journal, London  
Iowa Farm Science, Ames, Iowa  
Italia Agricola, Rome  
Izvestija Akademii Nauk S.S.S.R. Ser. Biol. [Russian]

Idia  
Indian Coconut J.  
Indian Coffee Bd mon. Bull.  
Indian Fmg  
Indian J. agric. Sci.  
Indian J. Hort.  
Indones. J. nat. Sci.  
Industr. Engng Chem.  
Inf. Bull. Turrialba  
Inf. Res. Trop. Prod. Dep. roy. Inst. Ind., Amsterdam  
Inf. Res. Trop. Prod. Dep. roy. Inst. Trop., Amsterdam  
Int. Sugar J.  
Ia Fm Sci.  
Ital. agric.  
Izv. Akad. Nauk S.S.S.R. Ser. biol.

Jaarboek "De Proeftuin" te Boskoop, Holland  
Jaarverslag Koninklijke Vereeniging Indisch Instituut, Amsterdam, *see* Annual Report Royal Institute for the Indies, Amsterdam  
Jaarverslag Proefstation voor de Groenten- en Fruitteelt onder Glas te Naaldwijk, Holland  
Jaarverslag Proeftuin voor de Bloementeelt te Aalsmeer, Holland  
Jaarverslag van de werkzaamheden verricht op het Centrale Bemestingsproefveld voor de Fruitteelt "De Lange Ossekampen", *see* Annual Report "De Lange Ossekampen"  
Jahrbuch der Hochschule für Bodenkultur in Wien, Vienna  
Jahresbericht der Eidg. Versuchsanstalt f. Obst-, Wein-, u. Gartenbau in Wädenswil, Switzerland  
Jahresbericht Höhere Bundeslehr- und Versuchsanstalt für Wein-, Obst- und Gartenbau, Klosterneuburg  
Jardins de France, Paris  
Journal of Agricultural Science, Cambridge  
Journal§ of the Agricultural Society of Trinidad and Tobago, Port of Spain

Jaarb. "De Proeftuin" Boskoop  
Jaarversl. Proefstat. Groent. Fruit. Glas  
Jaarversl. Proeft. Aalsmeer  
Jb. Hochsch. Bodenk. Wien  
Jber. Versuchsanst. Wädenswil  
Jber. Versuchsanst. Klosterneuburg  
Jardins Fr.  
J. agric. Sci.  
J. agric. Soc. Trin. Tob.

\* Formerly *Chronica Naturae*.

† Now Information and Research from the Tropical Products Department of the Royal Institute for the Tropics, Amsterdam.

‡ Formerly Information and Research from the Tropical Products Department of the Royal Institute for the Indies, Amsterdam.

§ Formerly *Proceedings*.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Journal of Agriculture of the University of Puerto Rico, Rio Piedras*	J. Agric. Univ. Puerto Rico
Journal of Agriculture of Western Australia, Perth	J. Agric. W. Aust.
Journal of the American Chemical Society, Easton, Pa	J. Amer. chem. Soc.
Journal of the American Statistical Association, Menasha, Wis.	J. Amer. statist. Ass.
Journal of the Arnold Arboretum, Jamaica Plain, Mass.	J. Arnold Arbor.
Journal of the Association of Official Agricultural Chemists, Washington, D.C.	J. Ass. off. agric. Chem. Wash.
Journal of the Australian Institute of Agricultural Science, Sydney	J. Aust. Inst. agric. Sci.
Journal of Biological Chemistry, Baltimore, Md	J. biol. Chem.
Journal of the Board of Greenkeeping Research, Bingley, Yorkshire	J. Bd Greenkeep. Res.
Journal of the Chemical Society of London, London	J. chem. Soc. Lond.
Journal of the Colorado-Wyoming Academy of Science, Boulder, Colorado	J. Colo-Wyo. Acad. Sci.
Journal of the Department of Agriculture, Éire, Dublin	J. Dep. Agric. Dublin
Journal of the Department of Agriculture of South Australia, Adelaide	J. Dep. Agric. S. Aust.
Journal of the Department of Agriculture of Victoria, Australia, Melbourne	J. Dep. Agric. Vict.
Journal of Ecology, London	J. Ecol.
Journal of Economic Entomology, Menasha, Wis.	J. econ. Ent.
Journal of Experimental Biology, Cambridge	J. exp. Biol.
Journal of Experimental Botany, Oxford	J. exp. Bot.
Journal of General Biology [Russian], <i>see</i> Žurnal Obščei Biologi	
Journal of General Microbiology, Cambridge	J. gen. Microbiol.
Journal of Genetics, London	J. Genet.
Journal of Heredity, Washington, D.C.	J. Hered.
Journal of the Horticultural Association of Japan, Tokyo	J. hort. Ass. Japan
Journal of Horticultural Science, London	J. hort. Sci.
Journal of the Institute of Brewing, London	J. Inst. Brew.
Journal of the Institute of Corn and Agricultural Merchants Ltd., London	J. Inst. Corn agric. Merch.
Journal of the Jamaican Association of Sugar Technologists, Kingston	J. Jamaican Ass. Sugar Tech.
Journal of the Madras University, Section B, Madras	J. Madras Univ., Sect. B
Journal of the National Institute of Agricultural Botany, Cambridge	J. nat. Inst. agric. Bot.
Journal of the Royal Agricultural Society of England, London	J. roy. agric. Soc.
Journal of the Royal Horticultural Society, London	J. roy. hort. Soc.
Journal of the Royal Statistical Society, Series B, Methodological, London	J. roy. statist. Soc.
Journal of the Royal Swedish Academy of Agriculture, Stockholm (Kungl. Lantbruksakademiens Tidskrift)	J. roy. Swedish Acad. Agric.
Journal of the Rubber Research Institute of Malaya, Kuala Lumpur	J. Rubb. Res. Inst. Malaya
Journal of the Science of Food and Agriculture, London	J. Sci. Food Agric.
Journal of the Scientific Agricultural Society of Finland, <i>see</i> Maataloustieteellinen Aikakauskirja	
Journal of Scientific and Industrial Research, New Delhi, India	J. sci. industr. Res., India
Journal of Scientific Instruments, London	J. sci. Instrum.
Journal of the Society of Chemical Industry, London	J. Soc. chem. Ind. Lond.
Journal of the Soilless Culture Society, Birmingham	J. soilless Cult. Soc.
Journal of Sugarcane Research, Taiwan, China	J. Sugarcane Res., Taiwan
Journal of the Washington Academy of Sciences, Menasha, Wis.	J. Wash. Acad. Sci.

\* Formerly Journal of the Department of Agriculture of Puerto Rico.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Kent Farmers' Journal, Maidstone	Kent Fmrs' J.
Kew Bulletin, London	Kew Bull.
Kolhoznoe Proizvodstvo (Collective Farming), Moscow [Russian]	Kolhoz. Proizv.
Kühn-Archiv, Berlin	Kühn-Arch.
Kungliga Lantbruksakademiens Tidskrift, Stockholm, <i>see</i> Journal of the Royal Swedish Academy of Agriculture	
Kungliga Lantbrukshögskolans Annaler, Uppsala, <i>see</i> Annals of the Royal Agricultural College of Sweden	
Landbouw, Bogor (Buitenzorg*), Indonesia	Landbouw
Landwirtschaftliches Jahrbuch der Schweiz, Bern	Landw. Jb. Schweiz
Leaflet Coconut Research Scheme Ceylon, Colombo	Leafl. Coconut Res. Sch. Ceylon
Leaflet Cyprus Department of Agriculture, Nicosia	Leafl. Cyprus Dep. Agric.
Leaflet Department of Agriculture, Canada, Division of Botany and Plant Pathology, Ottawa	Leafl. Dep. Agric. Canada, Div. Bot. Plant Path.
Leaflet Department of Agriculture for Scotland, Edinburgh	Leafl. Dep. Agric. Scot.
Leaflet Department of Agriculture, Western Australia	Leafl. Dep. Agric. W. Aust.
Leaflet Department of Scientific and Industrial Research, Forest Products Research Laboratory, Aylesbury, Bucks.	Leafl. D.S.I.R. For. Prod. Res. Lab.
Leaflet Forestry Commission, London	Leafl. For. Comm. Lond.
Leaflet Indian Coffee Board Research Department, Bangalore	Leafl. Indian Coffee Bd Res. Dep.
Leaflet New Jersey Agricultural Experiment Station, New Brunswick	Leafl. N.J. agric. Exp. Stat.
Leaflet Pennsylvania Agricultural Extension Service, State College	Leafl. Pa agric. Ext. Serv.
Leaflet U.S. Department of Agriculture, Washington, D.C.	Leafl. U.S. Dep. Agric.
Library List U.S. Department of Agriculture, Washington, D.C.	Library List U.S. Dep. Agric.
Lincolnshire and Surrounding Counties Agricultural Journal, Worcester	Lincoln. agric. J.
List of Current Foreign Periodicals, Washington, D.C.	
List of References to Boron Literature, published quarterly by American Potash Institute, Washington, D.C.	List Refs. Boron Lit.
Lloydia, Cincinnati, Ohio	Lloydia
Maataloustieteellinen Aikakauskirja, Helsinki (Journal of the Scientific Agricultural Society of Finland)	Maataloust. Aikakausk.
Madjalah Ilmu Alam Untuk Indonesia, <i>see</i> Indonesian Journal for Natural Science, Bandung	
Malayan Agricultural Journal, Kuala Lumpur	Malay. agric. J.
Manufacturing Chemist, London	Manuf. Chem.
Manx Journal of Agriculture, Douglas, I.O.M.	Manx J. Agric.
Marcellia. Rivista Internazionale di Cecidologia, Naples	Marcellia
Market Growers' Journal, Louisville, Ky	Market Grs. J.
Marketing Leaflet Ministry of Agriculture, London	Market. Leafl. Minist. Agric. Lond.
Meddelande Lantbrukshögskolan Jordbruksförsöksanstalten, Stockholm and other places	Meddel. Lantbruksh. Jordbruksf.
Meddelande från Statens Trädgårdsförsök, Malmö, Sweden	Medd. Trädgårdsförs. Malmö
Meddelande Växtskyddsanstalt, Stockholm	Medd. Växtskyddsanst. Stockh.
Mededelingen van het Algemeen Proefstation voor de Landbouw, Bogor (Buitenzorg)	Meded. alg. Proefst. Landb. Bogor
Mededeingen Directeur van den Tuinbouw, The Hague	Meded. Dir. Tuinb.
Mededeling Instituut voor Plantenziektenkundig Onderzoek, Wageningen	Meded. Inst. PlZiekt. Onderz. Wagen-ingen

\* Now Djakarta (Batavia)

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Mededeling Instituut voor Toegepast Biologisch Onderzoek in de Natuur, Oosterbeek	Meded. Inst. toegep. biolog. Onderz.
Mededeling Instituut voor Tuinbouwtechniek, Wageningen	Meded. Inst. TuinbTech.
Mededeling Instituut voor de Veredeling van Tuinbouwgewassen, Wageningen	Meded. Inst. Vered. Tuinbouwgew.
Mededelingen Laboratorium voor Bloembollenonderzoek te Lisse, Holland	Meded. Lab. Bloemboll. Lisse
Mededelingen van de Landbouwhoogeschool te Wageningen	Meded. LandbHoogesch. Wageningen
Mededelingen van den Plantenziektenkundigen Dienst te Wageningen	Meded. PlZiekt. Dienst
Mededelingen van het Proefstation voor de Groenten- en Fruitteelt onder Glas, Naaldwijk, Holland	Meded. Proefst. Groent. Fruit. Glas
Mededelingen van den Tuinbouwvoorlichtingsdienst, The Hague	Meded. TuinbVoorlicht. Dienst
Mededelingen Vereniging "De Proeftuin" te Boskoop	Meded. "De Proeftuin" Boskoop
Melding frå Statens Forsøkskgsd i Grønsakdyrking Kvithamar i Stjoldal, Norway	Meld. Stat. Forsøkskgs. Grøns. Kvithamar
Melding frå Statens Forsøksstasjon i Grønsakdyrking, Oslo	Meld. Stat. Forsøkst. Grøns. Oslo
Melding fra Statens Plantevern (Statens Plantepatologiske Institutt), Oslo	Meld. Stat. Plantevern
Meldinger frå Norges Landbrukshøgskole, Oslo	Meld. norg. LandbrHøgsk.
Mémoire Service de la Défense des Végétaux, Rabat, Morocco	Mém. Serv. Déf. Vég. Rabat
Memoir Cornell Agricultural Experiment Station, Ithaca, N.Y.	Mem. Cornell agric. Exp. Stat.
Memoirs of the Department of Agriculture, Salisbury, Southern Rhodesia	Mem. Dep. Agric. S. Rhod.
Memoirs of the Food Investigation Board, Department of Scientific and Industrial Research, London	Mem. Food Invest. Bd, Lond.
Memoir Imperial College of Tropical Agriculture, Trinidad	Mem. imp. Coll. trop. Agric. Trin.
Memoirs Research Division Ministry of Agriculture, Sudan, Khartoum	Mem. Res. Div. Minist. Agric. Sudan
Memoirs School of Agriculture, Cambridge	Mem. Sch. Agric. Camb.
Memorandum Indian Tea Association, Tocklai, Calcutta	Memor. Indian Tea Ass.
Merkblatt des Instituts für Obstbau, Berlin	Merkbl. Inst. Obstb. Berlin
Meteorological Magazine, London	Met. Mag.
Metron. Rivista Internazionale di Statistica, Rome	Metron
Mimeographed Circular Oklahoma Agricultural Experiment Station, Stillwater	Mimeo. Circ. Okla. agric. Exp. Stat.
Miscellanea Istituto Botanico dell'Università, Laboratorio Crittogamico Centro Studi Anticrittogamici, Pavia	Misc. Ist. bot. Univ. Pavia
Miscellaneous Publication Edinburgh and East of Scotland College of Agriculture, Edinburgh	Misc. Publ. Edinb. Coll. Agric.
Miscellaneous Publication Maine Agricultural Experiment Station, Orono	Misc. Publ. Me agric. Exp. Stat.
Miscellaneous Publication Oklahoma Agricultural Experiment Station, Stillwater	Misc. Publ. Okla. agric. Exp. Stat.
Miscellaneous Publication United States Department of Agriculture, Washington, D.C.	Misc. Publ. U.S. Dep. Agric.
Mitteilungen aus der Biologischen Zentralanstalt für Land- und Forstwirtschaft, Berlin-Dahlem	Mitt. biol. Zentralanst. Berlin-Dahlem
Mitteilungen des Deutschen Wetterdienstes in der US-Zone, Bad Kissingen	Mitt. dtsch. Wetterdienst. U.S. Zone
Mitteilungen der Höheren Bundeslehr- und Versuchsanstalten für Wein-, Obst- und Gartenbau Wien-Klosterneuburg und für Bienenkunde Wien-Grinzing	Mitt. Klosterneuburg
Mitteilungen für die Mitglieder des Obstbauversuchsringes des Alten Landes, Jork	Mitt. ObstbVersuchsringes Jork



# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Monograph Tea Research Institute of Ceylon, Talawakelle	Monogr. Tea Res. Inst. Ceylon
Monthly Bulletin of the Coffee Board of Kenya, Nairobi	Mon. Bull. Coffee Bd Kenya
Monthly List of Official Colonial Publications, London	Mon. List off. colon. Publ.
Monthly Weather Report of the Meteorological Office, London	Mon. Weather Rep. Lond.
Mushroom Science, Yaxley, Peterborough, England	Mushroom Sci.
Nachrichtenblatt für den Deutschen Pflanzenschutzdienst, Berlin	NachrBl. dtsh. PflSchDienst, Berlin
Nachrichtenblatt des Deutschen Pflanzenschutzdienstes, Braunschweig	NachrBl. dtsh. PflSchDienst., Braunschweig
N.A.A.S. [National Agricultural Advisory Service] Quarterly Review, London	N.A.A.S. Quart. Rev.
National Cactus and Succulent Journal, Bradford	Nat. Cactus Succ. J.
National Horticultural Magazine, Washington, D.C.	Nat. hort. Mag.
National Research Council Review, Ottawa	N.R.C. Rev. Ottawa
Nature, London	Nature
Nature [Russian], <i>see</i> Priroda	
New Commonwealth, London (formerly Crown Colonist)	New Commonw.
New Phytologist, Cambridge	New Phytol.
New York State Flower Growers Inc. Bulletin	Bull. N.Y. St. Flower Grs
New Zealand Journal of Agriculture, Wellington, N.Z.	N.Z. J. Agric.
New Zealand Journal of Science and Technology, Wellington, N.Z.	N.Z. J. Sci. Tech.
N.F.U. [National Farmers' Union] Annual, London	N.F.U. Annual, Lond.
Norsk Hagetidend, Oslo	Norsk Hagetid.
Northern Gardener, Manchester	North. Gdnr
Notas Agronomicas. Estación Agrícola Experimental de Palmira, Colombia	Not. agron. Palmira
Notiziario sulle Malattie delle Piante, Milan	Not. Mal. Piante
Nuovo Giornale Botanico Italiano, Florence	Nuovo G. bot. ital.
Nyasaland Agricultural Quarterly Journal, Blantyre	Nyasaland agric. quart. J.
Oléagineux, Marseilles	Oléagineux
Orchard and Garden [Russian], <i>see</i> Sad i Ogorod	
Orchardist of New Zealand, Wellington, N.Z.	Orchard. N.Z.
Organic Reactions, New York	Organic Reactions
Pacific Science, Honolulu	Pacific Sci.
Palestine Journal of Botany, Jerusalem series, Jerusalem	Palest. J. Bot. (J)
Palestine Journal of Botany, Rehovot Series, Rehovot	Palest. J. Bot. (R)
Pamphlet Vermont Agricultural Experiment Station, Burlington	Pamph. Vt agric. Exp. Stat.
Paper Citrus Experiment Station, Riverside, California	Pap. Calif. Citrus Exp. Stat.
Parasitica, Gembloux	Parasitica
Pflanzenschutz Berichte, Vienna	PflSch. Ber. Wien
Pflanzenschutz und Schädlingsbekämpfung, Dielsdorf-Zürich	PflSch. SchädliBekämpf.
Philippine Agriculturist, Los Banos, P.I.	Philipp. Agric.
Philippine Journal of Agriculture, Manila, P.I.	Philipp. J. Agric.
Philippine Journal of Science, Manila, P.I.	Philipp. J. Sci.
Philosophical Transactions of the Royal Society of London, Series B, London	Philos. Trans. Ser. B
Physiologia Plantarum, Copenhagen	Physiol. Plant.
Phytopathologische Zeitschrift, Berlin	Phytopath. Z.
Phytopathology, Lancaster, Pa	Phytopathology
Picture Sheet U.S. Department of Agriculture, Bureau of Entomology and Plant Quarantine, Washington, D.C.	Pict. Sheet U.S. Dep. Agric. Bur. Ent. Plant Quar.
Plant Protection Overseas Review, London	Plant Prot. Overs. Rev.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Plant and Soil, The Hague	Plant and Soil
Plant Breeding Abstracts, Cambridge	Plant Breed. Abstr.
Plant Disease Reporter (and Supplements), Beltsville, Md	Plant Dis. Reprtr
Plant Physiology, Lancaster, Pa	Plant Physiol.
Planta. Archiv für Wissenschaftliche Botanik, Berlin	Planta
Planters' Chronicle, Nilgiris, India	Plant. Chron.
Planters' Journal and Agriculturist, Calcutta	Plant. J., Calcutta
Planting Manual Rubber Research Institute of Malaya, Kuala Lumpur	Plant. Man. Rubb. Res. Inst. Malaya
Pomologie Française, Villefranche sur Rhône	Pomol. franç.
Pomme de Terre Française, Lille	Pomme de Terre franç.
Poona Agricultural College Magazine, Poona	Poona agric. Coll. Mag.
Popular Bulletin Washington State Agricultural Experiment Stations, Pullman	Pop. Bull. Wash. St. agric. Exp. Stat.
Portugaliae Acta Biologica, Series A, Lisbon	Portugal. Acta biol.
Press Bulletin Florida Agricultural Experimental Station, Gainesville	Press Bull. Fla agric. exp. Stat.
Priroda (Nature) Leningrad [Russian]	Priroda
Proceedings and Abstracts of the Western Canadian Weed Control Conference	Proc. & Abstr. west. Canad. Weed Contr. Conf.
Proceedings of the Academy of Sciences of the U.S.S.R. [Russian], see Doklady Akad. Nauk S.S.S.R.	
Proceedings* of the Agricultural Society of Trinidad and Tobago, Port of Spain	Proc. agric. Soc. Trin. Tob.
Proceedings of the American Pomological Society, held at different places	Proc, Amer. pomol. Soc.
Proceedings of the American Society for Horticultural Science, Editor Cornell Univ., Ithaca, N.Y.	Proc. Amer. Soc. hort. Sci.
Proceedings Annual Conference Asociacion de Técnicos Azucareros de Cuba	Proc. annu. Conf. Asoc. Téc. Azuç. Cuba
Proceedings of the Annual Congress of the South African Sugar Technologists' Association, Mount Edgecombe, Natal	Proc. annu. Congr. S. Afr. Sugar Tech.
Proceedings of Conference Queensland Society of Sugar Cane Technologists, Brisbane	Proc. Qd Soc Sugar Cane Tech
Proceedings of the Florida State Horticultural Society, held at different places	Proc. Fla St. hort. Soc.
Proceedings of the Indian Academy of Sciences, Section B, Bangalore	Proc. Indian Acad. Sci Sect. B
Proceedings of the Indian Tea Association, Annual Conference, Tocklai Experimental Station, Tocklai	Proc. Indian Tea Ass. Tocklai annu. Conf.
Proceedings Koninklijke Nederlandsche Akademie van Wetenschappen, Amsterdam	Proc. Kon. ned. Akad. Wetensch.
Proceedings of the Lenin Academy of Agricultural Sciences of U.S.S.R. [Russian], see Doklady Vsesojuznoi . . .	
Proceedings of the Meeting of the B.W.I. Sugar Technologists, held at different places in B.W.I.	Proc. Mtg B.W.I. Sugar Tech.
Proceedings of the National Shade Tree Conference, held at various places, U.S.A.	Proc. nat. Shade Tree Conf.
Proceedings of the New York State Horticultural Society, New York	Proc. N.Y. St. hort. Soc.
Proceedings North Eastern States Weed Control Conference (U.S.A.)	Proc. N.E. States Weed Control Conf.
Proceedings of the Northern Nut Growers Association (U.S.A.)	Proc. north. Nut Grs' Ass.
Proceedings of the Oklahoma Academy of Sciences, Normal, Oklahoma	Proc. Okla. Acad. Sci.
Proceedings of the Pennsylvania State Horticultural Association, State College	Proc. Pa St. hort. Ass.
Proceedings of the Queensland Society of Sugar Cane Technologists, Mackay, Queensland	Proc. Qd Soc. Sugar Cane Tech.

\* Now Journal.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Proceedings of the Annual, Rio Grande Valley Horticultural Institute, Weslaco, Texas	Proc. annu. Rio Grande Valley hort. Inst.
Proceedings of the Royal Institution of Great Britain, London	Proc. roy. Instn G.B.
Proceedings of the Royal Society, Series B, London	Proc. roy. Soc.
Proceedings of the Soil Science Society of America, Secretary-Treasurer Madison Wis.	Proc. Soil Sci. Soc. Amer.
Proceedings of the Southern Weed Conference (U.S.A.)	Proc. south. Weed Conf.
Proceedings Vermont State Horticultural Society, Rutland and other places	Proc. Vt St. hort. Soc.
Proceedings Washington State Horticultural Association, Washington State	Proc. Wash. St. hort. Ass.
Proceedings Western Weed Control Conference (U.S.A.)	Proc. west. Weed Control Conf.
Proceedings of the Zoological Society of Bengal, Calcutta	Proc. zool. Soc. Bengal
Processed Publications Department of Agriculture, Canada Division of Entomology, Ottawa	Processed Publ. Canada Dep. Agric. Div. Ent.
Professional Paper Boyce Thompson Institute, Yonkers	Prof. Pap. Boyce Thompson Inst.
Progres Agricole et Viticole, Montpellier	Progr. agric. vitic.
Progress Reports of the Canadian Agricultural Experimental Stations and Farms, Ottawa	Progr. Rep. Canad. agric. exp. Stats
Progress Report Pennsylvania Agricultural Experiment Station, State College	Progr. Rep. Pa agric. Exp. Stat.
Progress Report Wyoming Agricultural Experiment Station, Laramie	Progr. Rep. Wyo. agric. Exp. Stat.
Publicazione, Publicatie, Publications, etc. Those out of series are shown in brackets, thus (Publ.):	
(Publication) British West Indies Sugar Association, Port-of-Spain, Trinidad	(Publ.) B.W.I. Sugar Ass.
(Publication) Bureau of Agricultural Economics, United States Department of Agriculture, Washington, D.C.	(Publ.) Bur. agric. Econ. U.S. Dep. Agric.
(Publication) Canada Department of Agriculture, Ottawa	Publ. Canada Dep. Agric.
(Publication) Cawthron Institute, Nelson, N.Z.	(Publ.) Cawthron Inst.
(Publication) Commonwealth Economic Committee, London	Publ. Commonw. econ. Cttee
(Publication) Council for Scientific and Industrial Research, Australia	(Publ.) Coun. sci. industr. Res. Aust.
(Publication) Department of Agriculture for Scotland, Edinburgh	(Publ.) Dep. Agric. Scot.
(Publication) Direction de l'Agriculture et d'Elevage, Ministère des Colonies, Brussels	(Publ.) Dir. Agric. Minist. Colon. Brussels
(Publication) East Malling Research Station, Maidstone	(Publ.) E. Malling Res. Stat.
(Publication) Edinburgh and East of Scotland College of Agriculture, Edinburgh	(Publ.) Edinb. Coll. Agric.
(Publication) Estación Experimental de Aula Dei, Zaragoza, Spain	(Publ.) Estac. exp. Aula Dei, Zaragoza
(Publication) Experimental Farms Service, Department of Agriculture, Ottawa, Canada	Publ. exp. Fms Serv., Dep. Agric., Canada
(Publication) Food and Agriculture Organization, Washington, D.C.	(Publ.) F.A.O. Washington
(Publication) Fruit Series Department of Agriculture, Assam, Shillong	(Publ.) Fruit Ser. Dep. Agric. Assam
(Publication) Instituto de Fitotécnia Universidad Nacional de Tucumán	Publ. Inst. Fitotéc. Univ. nac. Tucumán
(Publication) Instituut voor de Veredeling van Tuinbouwgewassen, Wageningen	(Publ.) Inst. Vered. Tuinbouwgew., Wageningen
(Publication) Manitoba Department of Agriculture and Immigration, Winnipeg, Canada	Publ. Manitoba Dep. Agric.
(Publication) Meteorological Office, Air Ministry, London	(Publ.) met. Off. Air Minist. Lond.
(Publication) Ministerie van Landbouw, Visserijen Voedselvoorziening, The Hague	(Publ.) Minist. Landb., The Hague

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
(Publication) Ministerio de Agricultura, Guatemala	(Publ.) Minist. Agric. Guatemala
(Publication) Ministerio de Agricultura, Madrid	(Publ.) Minist. Agric. Madrid
(Publication) Ministerio da Agricultura, Serviço de Informação Agrícola, Rio de Janeiro	(Publ.) Minist. Agric. Rio de J.
(Publication) Ministerio de Agricultura de la Nación, Buenos Aires	(Publ.) Minist. Agric. Nac. B. Aires
Publicación Ministerio de Ganaderia y Agricultura, Montevideo, Uruguay	Publ. Minist. Ganad. Agric. Montevideo
Publicación Miscelanea Ministerio de Agricultura y Ganaderia, Buenos Aires, Argentina	Publ. misc. Minist. Agric. B. Aires
(Publication) Mushroom Growers Association, Yaxley, Peterborough	(Publ.) Mushroom Gr. Ass.
(Publications) N.A.A.S. [National Agricultural Advisory Service], London and elsewhere	(Publ.) nat. agric. adv. Serv. or N.A.A.S.
(Publication) National Institute of Agricultural Botany, Cambridge	(Publ.) nat. Inst. agric. Bot. Cambridge or N.I.A.B.
(Publication) National Institute of Agricultural Engineering, Silsoe	(Publ.) nat. Inst. agric. Engng or N.I.A.E.
(Publication) Nederlandsche Algemeene Keuringsdienst, Voor Boomkweekerijgewassen, The Hague	(Publ.) N.A.K.B. Nederland
(Publication) Nederlandse Fruittelers Organisatie	(Publ.) Nederl. Fruit Org. or N.F.O.
(Publication) North of Scotland College of Agriculture, Aberdeen	(Publ.) N. Scot. Coll. Agric.
Publicatie Proeftuin Zuid-Hollands Glasdistrict, Naaldwijk	Publ. Proeft. Z.H. Glasd.
(Publication) Royal Horticultural Society, London	(Publ.) roy. hort. Soc.
(Publication) Scientific Cooperation Office, Middle East, Cairo	(Publ.) sci. Coop. Off. Mid. East
Publication Série Scientifique de l'Institut National pour l'Étude Agronomique du Congo Belge, Brussels	Publ. Sér. sci. Inst. nat. Ét. agron. Congo belge or Publ. Sér. sci. I.N.É.A.C.
Publication Série Technique de l'Institut National pour l'Étude Agronomique du Congo Belge, Brussels	Publ. Sér. tech. Inst. nat. Ét. agron. Congo belge or Publ. Sér. tech. I.N.É.A.C.
(Publication) Station Centrale de Pathologie Végétale de Versailles	(Publ.) Stat. cent. Path. vég. Versailles
(Publication) Station Fédérale d'Essais Viticoles et Arboricoles, Lausanne	(Publ.) Stat. féd. Ess. vitic. arboric. Lausanne
(Publication) Trelawney Tobacco Research Station, Southern Rhodesia	(Publ.) Trelawney Tobacco Res. Stat.
(Publication) U.S. Department of Agriculture	(Publ.) U.S. Dep. Agric.
(Publication) United States Department of Agriculture, Agricultural Research Administration, Bureau of Agricultural and Industrial Chemistry	(Publ.) U.S. Dep. Agric. AIC-
(Publication) United States Department of Agriculture, Agricultural Research Administration, Bureau of Entomology and Plant Quarantine	(Publ.) U.S. Dep. Agric., Bur. Ent. Plant Quar. or (Publ.) U.S. Dep. Agric. E- or ET-
(Publication) U.S. Department of Commerce, Office of Technical Services, Industrial Research and Development Division, Washington, D.C.	(Publ.) U.S. Dep. Comm., Off. tech. Serv. industr. Res. Dev. Div.
(Publication) Université de Paris (Les Conférences du Palais de la Découverte)	(Publ.) Univ. Paris (Les Conférences du Palais de la Découverte)
(Publication) Western Washington Experiment Station, Puyallup	(Publ.) west. Wash. St. Exp. Stat.
Punjab Fruit Journal, Lyallpur	Punjab Fruit J.
Pyrethrum Post, London	Pyreth. Post
Quarterly Bulletin Michigan Agricultural Experiment Station, East Lansing, Mich.	Quart. Bull. Mich. agric. Exp. Stat.
Quarterly Circular, Ceylon Rubber Research Scheme, Colombo	Quart. Circ. Ceylon Rubb. Res. Scheme
Quarterly Journal of Microscopical Science, Oxford	Quart. J. microscop. Sci.



# LIST OF PUBLICATIONS

## Publication

## Suggested abbreviation

Quarterly Journal of the Royal Meteorological Society, London  
 Quarterly Review of Biology, Baltimore, Md  
 Quarterly Reviews, The Chemical Society, London  
 Queensland Agricultural Journal, Brisbane  
 Queensland Journal of Agricultural Science, Brisbane

Quart. J. roy. met. Soc.  
 Quart. Rev. Biol.  
 Quart. Rev. chem. Soc.  
 Qd agric. J.  
 Qd J. agric. Sci.

Rádce Zemědělce, published by Brázda, Prague  
 Rapport Annuel de l'Institut pour l'Encouragement de la Recherche Scientifique dans l'Industrie et l'Agriculture, Belgium

Rádce Zemědělce  
 Rapp. annu. I.R.S.I.A.

Rapport Annuel Institut des Fruits et Agrumes Coloniaux, Paris

Rapp. annu. Inst. Fruits Agrumes colon.  
 or Rapp. annu. I.F.A.C.

Rapport Annuel Institut National pour l'Étude Agronomique du Congo Belge, Leopoldville

Rapp. annu. Inst. nat. Ét. agron. Congo belge or Rapp. annu. I.N.É.A.C.

Rapports Annuels de la Station Fédérale d'Essais Viticoles et Arboricoles à Lausanne et Domaine de Pully [contained in Landwirtschaftliches Jahrbuch der Schweiz]

Rapp. annu. Stat. féd. Ess. vitic. arboric. Lausanne

Rapport Général Centre de Recherches de la Ligue Pomologique pour la Défense du Fruit Belge, Huy, Belgium

Rapp. gén. Centre Rech. Ligue pomol. Déf. Fruit belge

Rapport de la Station Provinciale de Recherches Scientifiques de Viticulture, La Hulpe, Belgium

Rapp. Stat. Rech. sci. Vitic. La Hulpe

Report of the Administrator of Agricultural Research, U.S. Department of Agriculture, Washington, D.C.

Rep. Administ. agric. Res. U.S. Dep. Agric.

Report on the Agricultural Experiment Stations, U.S.A.

Rep. agric. Exp. Stats U.S.A.

Report of the Agricultural Improvement Council for England and Wales, London

Rep. A.I.C. Lond.

Report of the Agricultural Institute, São Paulo, Brazil

Rep. agric. Inst. São Paulo

Report Annual Date Growers' Institute, Coachella

Rep. annu. Date Grs' Inst.

Report of the Caribbean Commission, Port of Spain, Trinidad

Rep. Caribbean Commn

Reports of Cocoa Conferences, London and elsewhere  
 Report on Coffee Entomology and Pathology, Entebbe, Uganda

Rep. Cocoa Conf.  
 Rep. Coffee Ent. Path. Entebbe

Report of the College of Agriculture, Vermont, Burlington

Rep. Vt Coll. agric.

Report to the Colonial Office, London

Rep. Colonial Office, Lond.

Report of the Director-General, Food and Agriculture Organization of the United Nations, Washington, D.C.

Rep. Dir.-Gen. F.A.O.

Report on Forest Research, London

Rep. For. Res.

Report Ministerio de Agricultura e Industrias, Costa Rica

Rep. Minist. Agric. Costa Rica

Report National Institute of Agricultural Engineering, Silsoe, Bedfordshire, and Mid-Calder, Midlothian

Rep. nat. Inst. agric. Engng

Report of Proceedings of the Annual Meeting of the Western Canadian Society of Horticulture, held at various places

Rep. Proc. west. Canad. Soc. Hort.

Report of the Rubber Research Institute of Malaya, Kuala Lumpur

Rep. Rubb. Res. Inst. Malaya

Report Series Agricultural Research Council, London

Rep. Ser. agric. Res. Coun. Lond.

Report Series Arkansas Agricultural Experiment Station, Fayetteville

Rep. Ser. Ark. agric. Exp. Stat.

Report Soil Survey Research Board, Agricultural Research Council, London

Rep. Soil Surv. Res. Bd, A.R.C., Lond.

Report Taiwan Sugar Experiment Station, China

Rep. Taiwan Sugar Exp. Stat.

Report on the Trial of New Varieties of Hops, East Malling, *see under* (Publication) East Malling Research Station

Report Waite Agricultural Research Institute, Glen Osmond, South Australia

Rep. Waite agric. Res. Inst. S. Aust.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Reports on the work of the Agricultural Stations in the Madras Presidency, <i>see under</i> Annual Report Madras . . . . .	
Report of Work of the Ceylon Rubber Research Board, Colombo	Rep. Work Rubb. Res. Bd, Ceylon
Reprint Waite Agricultural Research Institute, Adelaide Research, London	Repr. Waite agric. Res. Inst. Research, Lond.
Research Achievement Sheets United States Department of Agriculture, Washington, D.C.	Res. Achiev. Sheet U.S. Dep. Agric.
Research Bulletin Department of Plant Pathology West of Scotland Agricultural College, Auchincruive, Ayr	Res. Bull. Dep. Plant Path. W. Scot. agric. Coll.
Research Bulletin Iowa Agricultural Experiment Station, Ames	Res. Bull. Ia agric. Exp. Stat.
Research Bulletin Missouri Agricultural Experiment Station, Columbia	Res. Bull. Mo. agric. Exp. Stat.
Research Bulletin Nebraska Agricultural Experiment Station, Lincoln	Res. Bull. Neb. agric. Exp. Stat.
Research Bulletin Wisconsin Agricultural Experiment Station, Madison	Res. Bull. Wis. agric. Exp. Stat.
Research Circular Ohio Agricultural Experiment Station, Wooster, Ohio	Res. Circ. Ohio agric. Exp. Stat.
Research in Norwegian Agriculture, <i>see</i> Forskning og Forsøk i Landbruket	
Research Report North Central Weed Control Conference (U.S.A.)	Res. Rep. N. centr. Weed Control Conf.
Research Report University of Western Australia, Geographical Laboratory, Nedlands, W. Australia	Res. Rep. Univ. W. Aust. geog. Lab.
Research Studies of the State College of Washington, Pullman, Washington	Res. Stud. Wash. St. Coll. Pullman
Review of Applied Entomology, A. Agricultural, London	Rev. appl. Ent.
Review of Applied Mycology, Kew	Rev. appl. Mycol.
Review National Research Council, Canada, Ottawa, <i>see</i> National Research Council Review	
Review of Scientific Instruments, Lancaster, Pa, and New York, N.Y.	Rev. sci. Instrum.
Revista de Agricultura, Cochabamba, Bolivia	Rev. Agric. Cochabamba
Revista Agrícola, Guatemala	Rev. agric. Guatemala
Revista de Agricultura, Piracicaba, São Paulo	Rev. Agric. Piracicaba
Revista Agronómica, Publicação da Sociedade de Ciências Agronómicas de Portugal, Lisbon	Rev. agron. Lisboa
Revista Argentina de Agronomía, Buenos Aires	Rev. argent. Agron. B. Aires
Revista de la Asociacion de Ingenieros Agronomos, Montevideo	Rev. Asoc. Ingen. agron. Montevideo
Revista Ceres, Minas Gerais, Brazil	Rev. Ceres
Revista de la Facultad de Agronomía, Universidad La Plata, Argentina	Rev. Fac. Agron. La Plata
Revista de la Facultad de Agronomía y Veterinaria, Buenos Aires	Rev. Agron. B. Aires
Revista de la Facultad de Ciencias Agrarias, Mendoza, Argentine	Rev. Fac. Cien. agrar. Mendoza
Revista Facultad Nacional de Agronomía, Colombia	Rev. Fac. nac. Agron. Colombia
Revista Industrial y Agrícola de Tucumán, Argentina	Rev. industr. agric. Tucumán
Revista del Instituto de Defensa da Café de Costa Rica, San José	Rev. Inst. Def. Café San José
Revista de Investigaciones Agrícolas, Buenos Aires	Rev. Invest. agric. B. Aires
Revue Agricole de l'Île Maurice, Mauritius	Rev. agric. Maurice
Revue Agricole de l'Île de Réunion, Saint-Denis	Rev. agric. Réunion
Revue de l'Agriculture, Bruxelles	Rev. Agric. Brux.
Revue Française de l'Oranger, <i>see</i> Fruits et Primeurs	
Revue Générale du Caoutchouc, Paris	Rev. gén. Caoutch.
Revue Horticole, Paris	Rev. hort. Paris
Revue Horticole de l'Algérie, Algiers	Rev. hort. Algér.
Revue Horticole Suisse, Geneva	Rev. hort. suisse

# LIST OF PUBLICATIONS

## Publication

Revue Internationale de Botanique Appliquée et d'Agriculture Tropicale, Paris  
 Revue d'Oka, Agronomie, Médecine, Vétérinaire, La Trappe, Quebec  
 Revue Romande d'Agriculture, de Viticulture, et d'Arboriculture, Lausanne  
 Rhodesia Agricultural Journal, Salisbury  
 Rivista di Agricoltura Subtropicale e Tropicale, Florence  
 Rivista di Ecologia, Perugia  
 Rivista di Frutticoltura, Ravenna  
 Rivista della Ortoflorofrutticoltura Italiana, Florence  
 Rubber Developments, London

Sad i Ogorod (Orchard and garden), Moscow [Russian]  
 Sbornik Vysoké Školy Zemědělské v Brně, *see* Acta Universitatis Agriculturae et Silviculturae, Brno, Czechoslovakia  
 S. C. Purdue Agricultural Experiment Station, Lafayette, Indiana  
 Schweizerische Zeitschrift für Obst- und Weinbau, Wädenswil  
 Science, New York  
 Science Bulletin Department of Agriculture, New South Wales  
 Science Bulletin of the Department of Agriculture, Union of South Africa, Pretoria  
 Science Bulletin Western Province Fruit Research Station, Stellenbosch, South Africa  
 Science and Culture, Calcutta  
 Science Progress, London  
 Science Series Bulletin Department of Agriculture, Mauritius, Port Louis  
 Scientific Agriculture, Ottawa  
 Scientific Contribution New Hampshire Agricultural Experiment Station  
 Scientific Horticulture, Sutton Bonington, England  
 Scientific Paper West Virginia Agricultural Experiment Station, Morgantown  
 Scientific Proceedings of the Royal Dublin Society, Dublin  
 Scientific Reports of the Indian Agricultural Research Institute, New Delhi  
 Scientific Series Malaya Department of Agriculture, Kuala Lumpur  
 Scottish Agriculture, Edinburgh  
 Seed Growers Leaflets, N.I.A.B. Cambridge  
 Seed World, Chicago  
 Serial Tea Research Institute, Tocklai  
 Série Scientifique, Institut National de l'Étude Agronomique du Congo Belge, Brussels  
 Série Technique, Institut National de l'Étude Agronomique du Congo Belge, Brussels  
 Socialist Agriculture [Russian], *see* Socialističeskoe . . .  
 Socialističeskoe Seljskoe Hozjaistvo (Socialist Agriculture), Moscow [Russian]  
 Soil Science, New Brunswick, N.J.  
 Soils and Fertilizers, Rothamsted  
 South African Journal of Science, Johannesburg  
 South African Sugar Journal, Durban  
 Special Bulletin Michigan Agricultural Experiment Station, East Lansing  
 Station Bulletin Oregon Agricultural Experiment Station, Corvallis

## Suggested abbreviation

Rev. int. Bot. appl.  
 Rev. d'Oka  
 Rev. romande Agric. Vitic.  
 Rhod. agric. J.  
 Riv. Agric. subtrop.  
 Riv. Ecol.  
 Riv. Fruttic.  
 Riv. Ortoflorofruttic. ital.  
 Rubb. Dev.  
 Sad i Ogorod  
 S. C. Purdue agric. Exp. Stat.  
 Schweiz. Z. Obst- u. Weinb.  
 Science  
 Sci. Bull. Dep. Agric. N.S.W.  
 Sci. Bull. Dep. Agric. S. Afr.  
 Sci. Bull. W. Prov. Fruit Res. Stat. Stellenbosch  
 Sci. and Cult.  
 Sci. Progr.  
 Sci. Ser. Bull. Dep. Agric. Mauritius  
 Sci. Agric.  
 Sci. Contr. N.H. agric. Exp. Stat.  
 Sci. Hort.  
 Sci. Pap. W. Va agric. Exp. Stat.  
 Sci. Proc. roy. Dublin Soc.  
 Sci. Rep. Indian agric. Res. Inst  
 Sci. Ser. Malaya Dep. Agric.  
 Scot. Agric.  
 Seed Gr. Leaf.  
 Seed World  
 Ser. Tea Res. Inst. Tocklai  
 Sér. sci. Inst. nat. Ét. agron. Congo belge or Sér. sci. I.N.É.A.C.  
 Sér. tech. Inst. nat. Ét. agron. Congo belge or Sér. tech. I.N.É.A.C.  
 Social. seljsk. Hoz.  
 Soil Sci.  
 Soils & Ferts  
 S. Afr. J. Sci.  
 S. Afr. Sugar J.  
 Spec. Bull. Mich. agric. Exp. Stat.  
 Stat. Bull. Ore. agric. Exp. Stat.



# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Special Circular North Carolina Agricultural Experiment Station, Raleigh	Spec. Circ. N.C. agric. Exp. Stat.
Suelo Tico, San José, Costa Rica	Suelo Tico
Sugar, New York	Sugar. N. York
Sugar Bulletin Department of Agriculture, British Guiana, Georgetown	Sugar Bull. Dep. Agric. Brit. Guiana
Sugar Journal, New Orleans, La	Sugar J.
Sugestiones Oportunas para el Agricultor de Rio Negro, Cinco Saltos, <i>see</i> Boletín de la Estación Experimental Cinco Saltos	
Suomalaisen Tiedeakatemian Toimituksia (Annales Academiae Scientiarum Fennicae), Ser. A, IV, Biologica. Helsinki	Suom. Tiedeakat. Toim. Biol.
Suomalaisen Tiedeakatemian Toimituksia (Annales Academiae Scientiarum Fennicae), Ser. A, II, Chemica. Helsinki	Suom. Tiedeakat. Toim. Chem.
Suomen Hyönteistieteellinen Aikakauskirja [Annales Entomologici Fennici], Helsinki	Suom. Hyönteist. Aikakausk.
Svensk Geografisk Årsbok, Lund	Svensk geogr. Årsb.
Sveriges Pomologiska Förenings Årsskrift, Stockholm	Sver. pomol. Fören. Årsskr.
Tabacco, Rome	Tabacco
Tasmanian Journal of Agriculture, Hobart	Tasm. J. Agric.
Tätigkeitsbericht der Gärtnerischen Versuchsanstalt zu Friesdorf/Bad Godesberg	TätigskBer. gärtl. Versuchsanst. Friesdorf
Taiwan Sugar Journal Quarterly, Taiwan, China	Taiwan Sugar J. Quart.
Tea Protection Series Indian Tea Association, Scientific Department, Tocklai	Tea Prot. Ser. Indian Tea Ass. sci. Dep.
Tea Quarterly, Journal of the Tea Research Institute of Ceylon, Talawakelle	Tea Quart.
Tea Times, London	Tea Times
Technical Bulletin Arizona Agricultural Experiment Station, Tucson	Tech. Bull. Ariz. agric. Exp. Stat.
Technical Bulletin Colorado Agricultural Experiment Station, Fort Collins	Tech. Bull. Colo. agric. Exp. Stat.
Technical Bulletin Department of Agriculture Canada, Ottawa	Tech. Bull. Dep. Agric. Canada
Technical Bulletin Hawaii Agricultural Experiment Station, Honolulu	Tech. Bull. Hawaii agric. Exp. Stat.
Technical Bulletin Michigan Agricultural Experiment Station, East Lansing	Tech. Bull. Mich. agric. Exp. Stat.
Technical Bulletin Ministry of Agriculture, London	Tech. Bull. Minist. Agric. Lond.
Technical Bulletin Minnesota Agricultural Experiment Station, St. Paul	Tech. Bull. Minn. agric. Exp. Stat.
Technical Bulletin New Hampshire Agricultural Experiment Station, Durham	Tech. Bull. N.H. agric. Exp. Stat.
Technical Bulletin New York State Agricultural Experiment Station, Geneva	Tech. Bull. N.Y. St. agric. Exp. Stat.
Technical Bulletin North Carolina Agricultural Experiment Station, Raleigh	Tech. Bull. N.C. agric. Exp. Stat.
Technical Bulletin Oklahoma Agricultural Experiment Station, Stillwater	Tech. Bull. Okla. agric. Exp. Stat.
Technical Bulletin Oregon Agricultural Experiment Station, Corvallis	Tech. Bull. Ore. agric. Exp. Stat.
Technical Bulletin United States Department of Agriculture, Washington, D.C.	Tech. Bull. U.S. Dep. Agric.
Technical Bulletin Virginia Agricultural Experiment Station, Blacksburg	Tech. Bull. Va agric. Exp. Stat.
Technical Communication Bureau of Sugar Experiment Stations, Queensland	Tech. Commun. Qd Bur. Sugar Exp. Stats
Technical Communications of the Commonwealth Agricultural Bureaux, Farnham Royal, Bucks.	Tech. Commun. Commonw. Bur.
Technical Digest, Washington and Ottawa	Tech. Dig.



# LIST OF PUBLICATIONS

## Publication

Technical Paper Agricultural Experiment Station, Puerto Rico, Rio Piedras  
 Technical Publication Canterbury Agricultural College, New Zealand  
 Technical Publications Inter-American Institute of Agricultural Sciences, Washington, D.C.  
 Tekel Enstitüleri Raporlari, Istanbul  
 Tekel Tutun İnstitüsü Raporlari, Istanbul, *see* Tekel Enstitüleri Raporlari  
 Terre Marocaine, Casablanca  
 Tidsskrift for Planteavl, Copenhagen  
 Tijdschrift over Plantenziekten, Wageningen  
 The Times Review of Industry, London  
 Tin Printer and Box Maker and Canning Industry, London  
 T.N.O.-Nieuws, Groningen, Holland  
 Transactions of the British Mycological Society, Cambridge  
 Transactions Peninsula Horticultural Society, Dover, Delaware  
 Transactions and Proceedings of the Botanical Society of Edinburgh, Edinburgh  
 Translated Contents List of Russian Periodicals, D.S.I.R., London  
 Tropical Agriculture. Journal of the Imperial College of Tropical Agriculture, Port-of-Spain  
 Tropical Agriculturist and Magazine of the Ceylon Agricultural Society, Peradeniya  
 Tropical Woods, New Haven, Conn.  
 Tunisie Agricole, Tunis  
 Valtion Maatalouskoetöiminnan Julkaisuja (Agricultural Experiment Activities of the State [Finland] Publication), Helsinki  
 Valtion Maatalouskoetöiminnan Tiedonantoja (Agricultural Experiment Activities of the State [Finland] Report), Helsinki  
 Växtodling; Skrifter från Institutionen för Växtodlingslära vid Kungl. Lantbrukshögskolan, Uppsala  
 Växtskyddsnotiser, Stockholm  
 Vegetatio, The Hague  
 Veröffentlichungen der Bundesanstalt für Alpine Landwirtschaft in Admont, Austria  
 Verslagen en Mededelingen van de Plantenziektenkundige Dienst te Wageningen, *see under* Mededelingen  
 Versuchsergebnisse der Bundesanstalt für Alpine Landwirtschaft Admont, Austria  
 Vinodelie i Vinogradarstvo (Wine-making and Viticulture), Moscow [Russian]  
 Vlugschrift van den Plantenziektenkundigen Dienst te Wageningen, Wageningen  
 Wallerstein Laboratories Communication, New York  
 Weather, London  
 Wine-making and Viticulture [Russian], Moscow, *see* Vinodelie i Vinogradarstvo  
 Wisconsin Horticulture, Madison, Wis.  
 World Crops, London  
 Yearbook of Agriculture U.S. Department of Agriculture, Washington, D.C.  
 Yearbook, California Avocado Society, Los Angeles  
 Yearbook of Caribbean Research, Port of Spain, Trinidad

## Suggested abbreviation

Tech. Pap. agric. Exp. Stat. Rio Piedras, P.R.  
 Tech. Publ. Canterbury agric. Coll.  
 Tech. Publ. inter-amer. Inst. agric. Sci.  
 Tekel Enst. Raporlari  
 Terre maroc.  
 Tidsskr. Planteavl  
 Tijdschr. PlZiekt.  
 Times Rev. Industr.  
 Tin-Print. Box Mkr & Canning Ind.  
 T.N.O.-Nieuws  
 Trans. Brit. mycol. Soc.  
 Trans. Peninsula hort. Soc.  
 Trans. bot. Soc. Edinb.  
 Transl. Contents List Russ. Period.  
 Trop. Agriculture Trin.  
 Trop. Agriculturist  
 Trop. Woods  
 Tunis. agric.  
 Valt. Maatalousk. Julk.  
 Valt. Maatalousk. Tied.  
 Växtodling  
 Växtskyddsnotiser  
 Vegetatio  
 Veröff. Bundesanst. alpine Landw. Admont  
 Versuchsergebn. Bundesanst. alpine Landw. Admont  
 Vlugschr. PlZiekt. Dienst Wageningen  
 Wallerstein Lab. Commun.  
 Weather  
 Wis. Hort.  
 World Crops  
 Yearb. Agric. U.S. Dep. Agric.  
 Yearb. Calif. Avoc. Soc.  
 Yearb. Caribbean Res.

# LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Yearbook of the Faculty of Agriculture of the University of Belgrade, Yugoslavia	Yearb. Fac. Agric. Belgrade
Yearbook of the Food and Agriculture Organization of the United Nations, Washington, D.C.	Yearb. F.A.O.
Yearbook of the Royal Veterinary and Agricultural College, Copenhagen	Yearb. roy. vet. agric. Coll. Copenhagen
Zeitschrift für Pflanzenernährung, Düngung, Bodenkunde, Weinheim and Berlin	Z. PflErnähr. Düng.
Zeitschrift für Pflanzenkrankheiten, Stuttgart	Z. PflKrankh.
Zoological Record, Section Insecta, London	Zool. Rec.
Züchter, Berlin	Züchter
Žurnal Obščei Biologii (Journal of General Biology), Moscow [Russian]	Žurn. obščei Biol.